

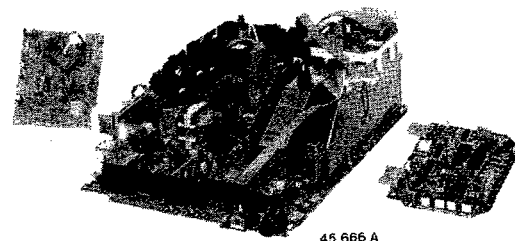
PHILIPS

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MODEL

SERVICE MANUAL

Service
Service
Service



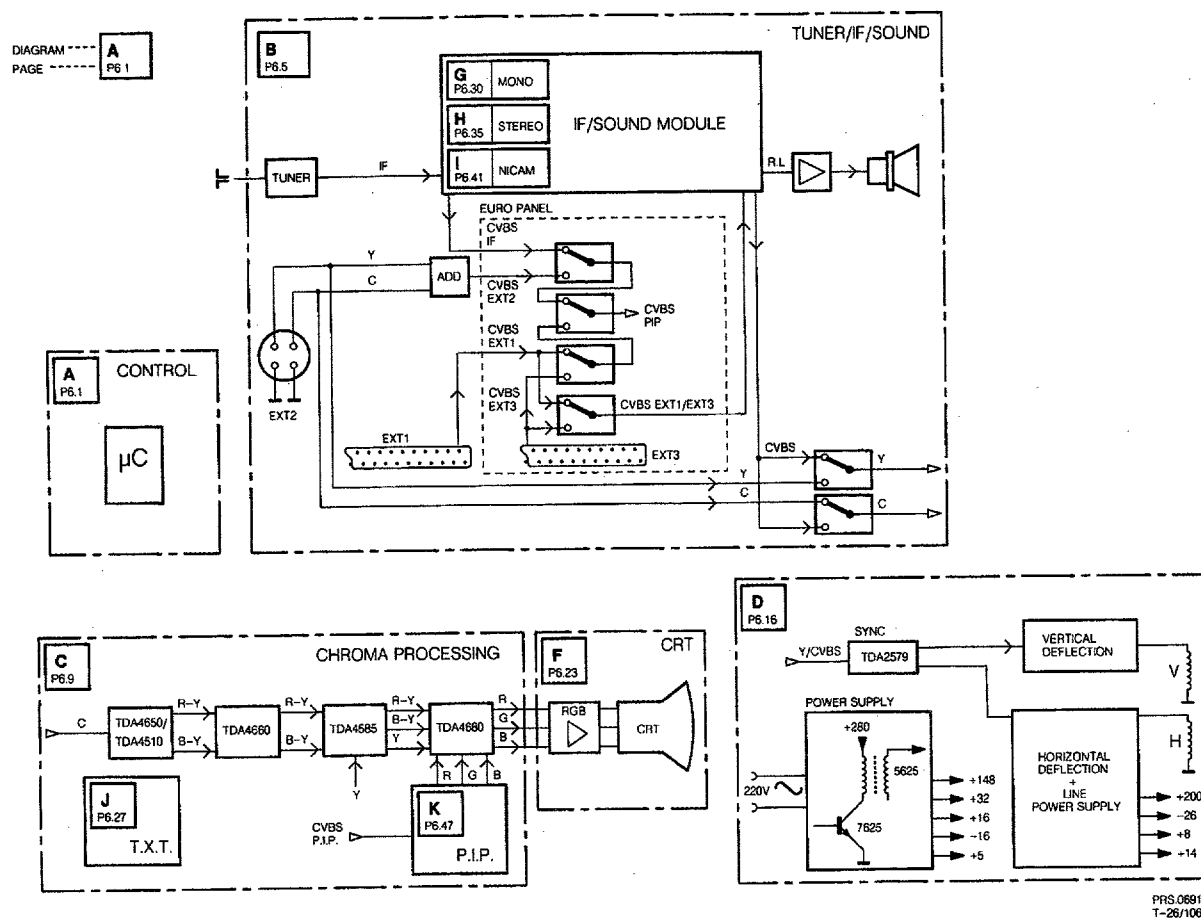
Service Manual

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Block diagram



Technical data

Mains voltage	: 220 - 240 V (±10%)
Mains frequency	: 50 Hz (± 10%)
Aerial input impedance	: 75Ω - coax
Minimum aerial voltage	: 40μV
Maximum aerial voltage	: 32mV
Pull-in range colour synchronization	: ±300Hz
Pull-in range horizontal synchronization	: ±300Hz

Local operation functions:

P +; P -; $\triangle$ +; $\triangle$ -; install

Programmes: 0-59

VCR operation on programmes: 0-59

Indications:

- On Screen Display (OSD)
- LED:
 - standby (red)
 - operation (green)
 - RC5 reception (flashing yellow)
 - internal fault in μP (flashing)

1. Specification of the terminal sockets

EXT1

- 1 - Audio $\rightarrow$ R ($0.5 V_{RMS}; \leq 1 k\Omega$)
- 2 - Audio $\rightarrow$ R ($0.2-2 V_{RMS}; 0.5 V_{nom}; \geq 10 k\Omega$)
- 3 - Audio $\rightarrow$ L ($0.5 V_{RMS}; \leq 1 k\Omega$)
- 4 - Audio $\perp$
- 5 - Blue $\perp$
- 6 - Audio $\rightarrow$ L ($0.2-2 V_{RMS}; 0.5 V_{nom}; \geq 10 k\Omega$)
- 7 - Blue $\rightarrow$ ($0.7 V_{pp}; 75 \Omega$)
- 8 - RC5 $\rightarrow$ (500-800 mV_{pp}) + CVBS status 1 $\rightarrow$ (0-2 V: int.; 9.5-12 V: ext.)
- 9 - Green $\perp$
- 10 - -
- 11 - Green $\rightarrow$ ($0.7 V_{pp}; 75 \Omega$)
- 12 - -
- 13 - Red $\perp$
- 14 - -
- 15 - Red $\rightarrow$ ($0.7 V_{pp}; 75 \Omega$)
- 16 - RGB status $\rightarrow$ (0-0.4 V: int.; 1-3 V: ext.; 75Ω)
- 17 - CVBS $\rightarrow$ $\perp$
- 18 - CVBS $\rightarrow$ $\perp$
- 19 - CVBS $\rightarrow$ ($1 V_{pp}; 75 \Omega$)
- 20 - CVBS $\rightarrow$ ($1 V_{pp}; 75 \Omega$)
- 21 - Earth screen

EXT2

- 1 - $\perp$
- 2 - $\perp$
- 3 - Y $\rightarrow$ ($1 V_{pp}; 75 \Omega$)
- 4 - C $\rightarrow$ ($1 V_{pp}; 75 \Omega$)

2x $\odot$ CINCH Audio $\rightarrow$ L + R ($0.2-2 V_{RMS}; 0.5 V_{nom}; \geq 10 k\Omega$)

Audio out

2x $\odot$ CINCH Audio $\rightarrow$ L + R ($0.5 V_{RMS}; \leq 1 k\Omega$)

Front

$\odot$ d/ϕ 3,5 mm
 $\geq 8 \Omega$

EXT3

- 1 - Audio $\rightarrow$ R ($0.5 V_{RMS}; \leq 1 k\Omega$)
- 2 - Audio $\rightarrow$ R ($0.2-2 V_{RMS}; 0.5 V_{nom}; \geq 10 k\Omega$)
- 3 - Audio $\rightarrow$ L ($0.5 V_{RMS}; \leq 1 k\Omega$)
- 4 - Audio $\perp$
- 5 - -
- 6 - Audio $\rightarrow$ L ($0.2-2 V_{RMS}; 0.5 V_{nom}; \geq 10 k\Omega$)
- 7 - -
- 8 - CVBS status 3 $\rightarrow$ (0-2 V: int.; 9.5-12 V: ext.)
- 9 - -
- 10 - -
- 11 - -
- 12 - -
- 13 - -
- 14 - -
- 15 - -
- 16 - -
- 17 - CVBS $\rightarrow$ $\perp$
- 18 - CVBS $\rightarrow$ $\perp$
- 19 - CVBS $\rightarrow$ ($1 V_{pp}; 75 \Omega$)
- 20 - CVBS $\rightarrow$ ($1 V_{pp}; 75 \Omega$)
- 21 - Earth screen

2. Connecting equipment

Depending on the type of TV set, a variety of equipment can be connected. The exact number of pieces of equipment depends on the number of connectors on the back of the TV set (EXT1, 2 or 3). The wiring diagram in Fig. 2.1 shows which kinds of equipment can be connected. The wiring diagram shows the TV set with the maximum number of connectors possible for the GR2.1 chassis.

An RGB source (e.g. laserdisc player) can only be connected to EXT1. In order to switch the TV set to RGB operation, this RGB source must generate both a CVBS status signal at pin 8 and an RGB status signal at pin 16 of the euroconnector. It is not possible to switch the equipment to EXT1 in RGB operation using the remote control.

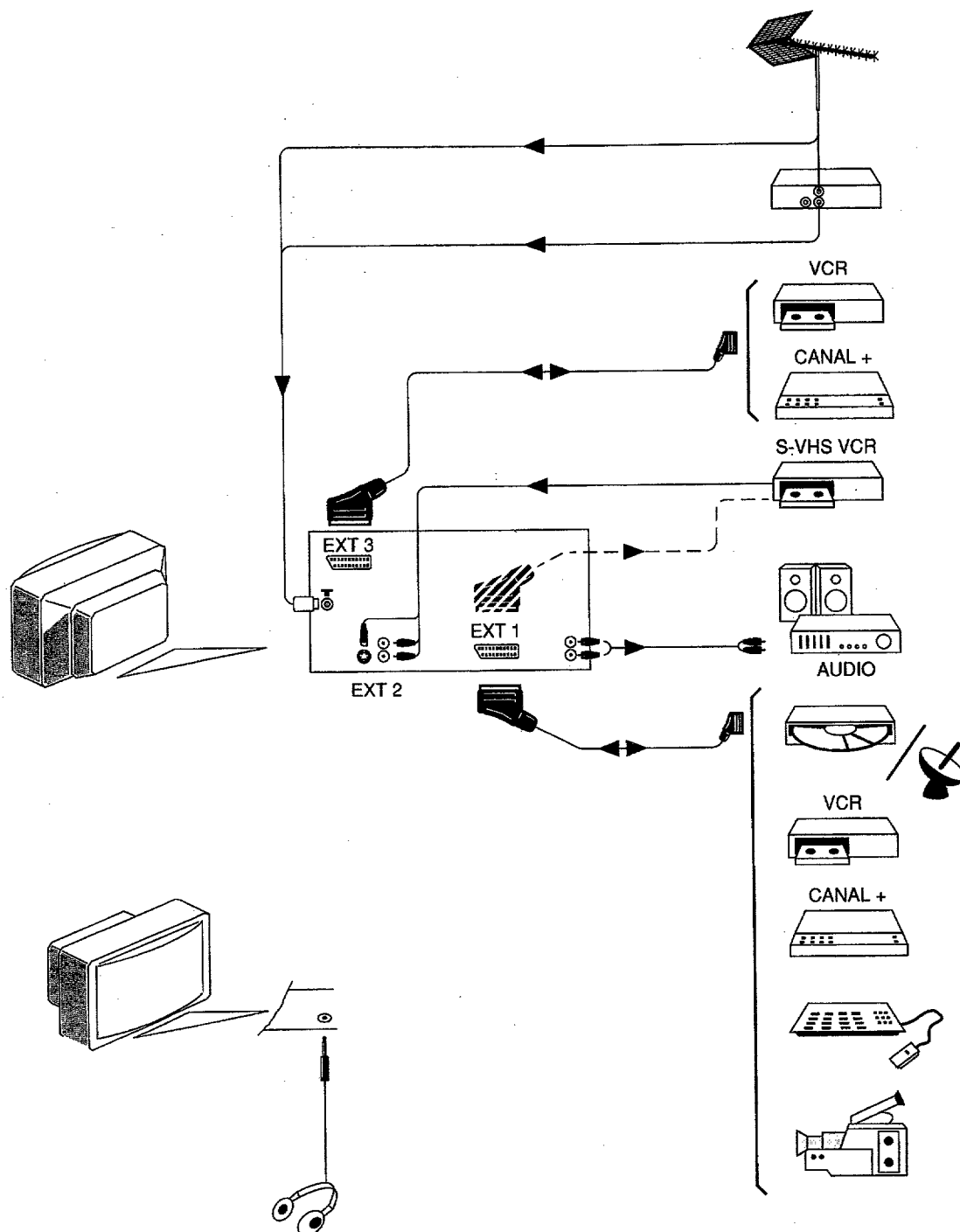


Fig. 2.1

Warnings

1. Safety regulations require that the unit should be returned in its original condition and that components identical to the original components are used. The safety components are indicated by the symbol .
2. In order to prevent damage to ICs and transistors, all high-voltage flashovers must be avoided. In order to prevent damage to the picture tube, it should be discharged using the method shown in Fig.3.1. Use a high-voltage probe and a multimeter (position DC-V). Discharge until the meter reading is 0V (after approx. 30s).
3. **ESD** 
All ICs and many other semiconductors are sensitive to electrostatic discharges (ESD). Careless handling during repair can drastically shorten their life. Make sure that during repair you are connected by a pulse band with resistance to the same potential as the earth of the unit. Keep components and tools also at this same potential.
4. When repairing a unit, always connect it to the mains voltage via an isolating transformer.
5. Be careful when taking measurements in the high-voltage section and on the picture tube.
6. Never replace modules or other components while the unit is switched on.
7. It is recommended that safety goggles are worn when replacing the picture tube.
8. When making settings, use plastic rather than metal tools. This will prevent any short circuits and the danger of a circuit becoming unstable.
9. After repair the wiring should be fastened once more in the cable clamps for this purpose.
10. In order to prevent measuring errors, the heat sinks should not be used as reference points for measurements.
The heat sink for the sound output amplifier (next to the channel selector) is connected to the -16 or -12 volts.
11. Together with the deflection unit and any multipole unit, the flat square picture tubes used form an integrated unit. The deflection and the multipole units are set optimally at the factory. Adjustment of this unit during repair is therefore not recommended.
12. The high-voltage cable in 21" units is glued in the line output transformer. This can therefore not be replaced.

Notes

CHASSIS GR2.1

3.1

1. The direct voltages and oscillograms should be measured with regard to the tuner earth ($\perp$), or hot earth ($\perp$ ) as this is called.
2. The direct voltages and oscillograms given in the diagrams should be measured in the service default mode (see section 9). A colour bar signal, modulated on a picture carrier wave of 475.25 MHz, should be used as the video signal. A 1 kHz signal should be used for the sound (for all systems).
3. Where necessary, the oscillograms and direct voltages are measured with () and without aerial signal (). Voltages in the power supply section are measured both for normal operation ($\textcircled{D}$) and in standby ($\textcircled{D}$). These values are indicated by means of the appropriate symbols.
4. The picture tube PCB has printed spark gaps. Each spark gap is connected between an electrode of the picture tube and the Aquadag coating.
5. The semiconductors indicated in the circuit diagram and in the parts lists are completely interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.
6. The connectors used for the modules (board to board) are gold-plated and should only be replaced by the same type.
7. In the case of fault finding and/or repair to the teletext module, the accessibility of the circuit and the components can be increased by using extension cards.
The order numbers of these extension cards are:
* 6 times: 4822 395 30259
* 8 times: 4822 214 31402
8. Both multisystem and single system units are discussed in this documentation.
The term multisystem unit is used to refer to a unit that is suitable for the reception of PAL BGI and SECAM BGLL' systems.
The term single system unit is used to refer to all other units (such as PAL BG, PAL/SECAM BG and PAL I units).
9. Blackline units can be recognized by the thick, protected high-voltage cable. Non-blackline units have a thin, unprotected high-voltage cable.

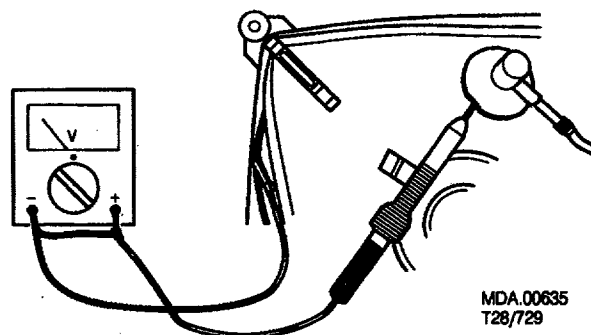


Fig. 3.1

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CS 35 555 GB

1. Removing the back plate

It is only possible to remove the back plate after removing the screws on the top, side, possibly on the underneath and possibly under the EXT 3 connection (see Fig. 4.1). In the case of subwoofer units, the subwoofer speaker on the carrier panel should also be unplugged.

2. Service position 1

Service position for module service and to measure test points

Unlock the chassis after the cables of the degaussing coil and any PIP module have been disconnected, and pull it backwards until all test points are accessible (see Fig. 4.2).

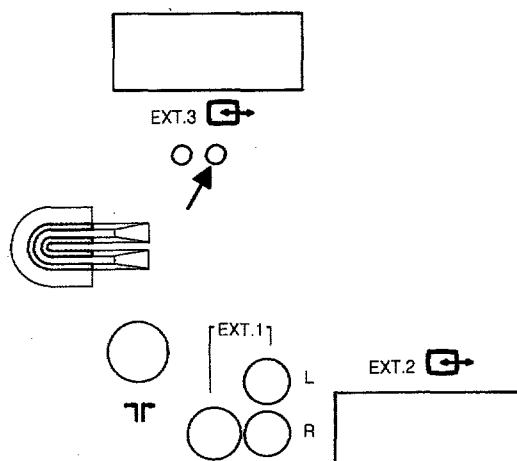
In order to make the tuner and the IF/sound module accessible, the bracket above these modules can be removed (see Fig. 4.3). With the exception of one fault message, the unit continues to function normally when the PIP module is not connected.

3. Service position 2

Service position for repair

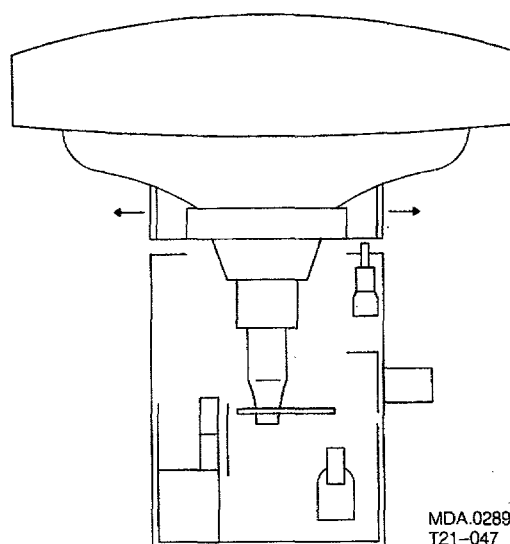
Place the chassis on the heat sink on the tuner side after service position 1 is reached (see Fig. 4.4).

Warning: make sure that the heat sink of the sound output amplifier does not form a short circuit with the raster/line heat sink if the bracket of the euromodule has been removed!



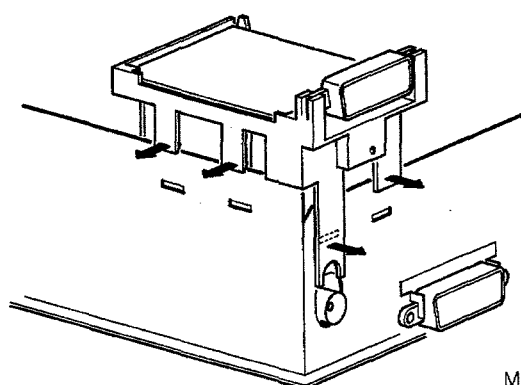
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Fig. 4.1



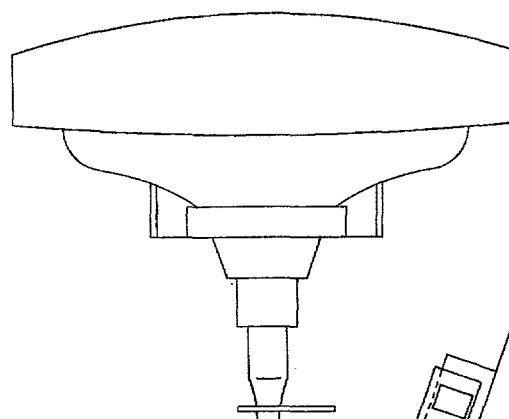
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T21-047

Fig. 4.2



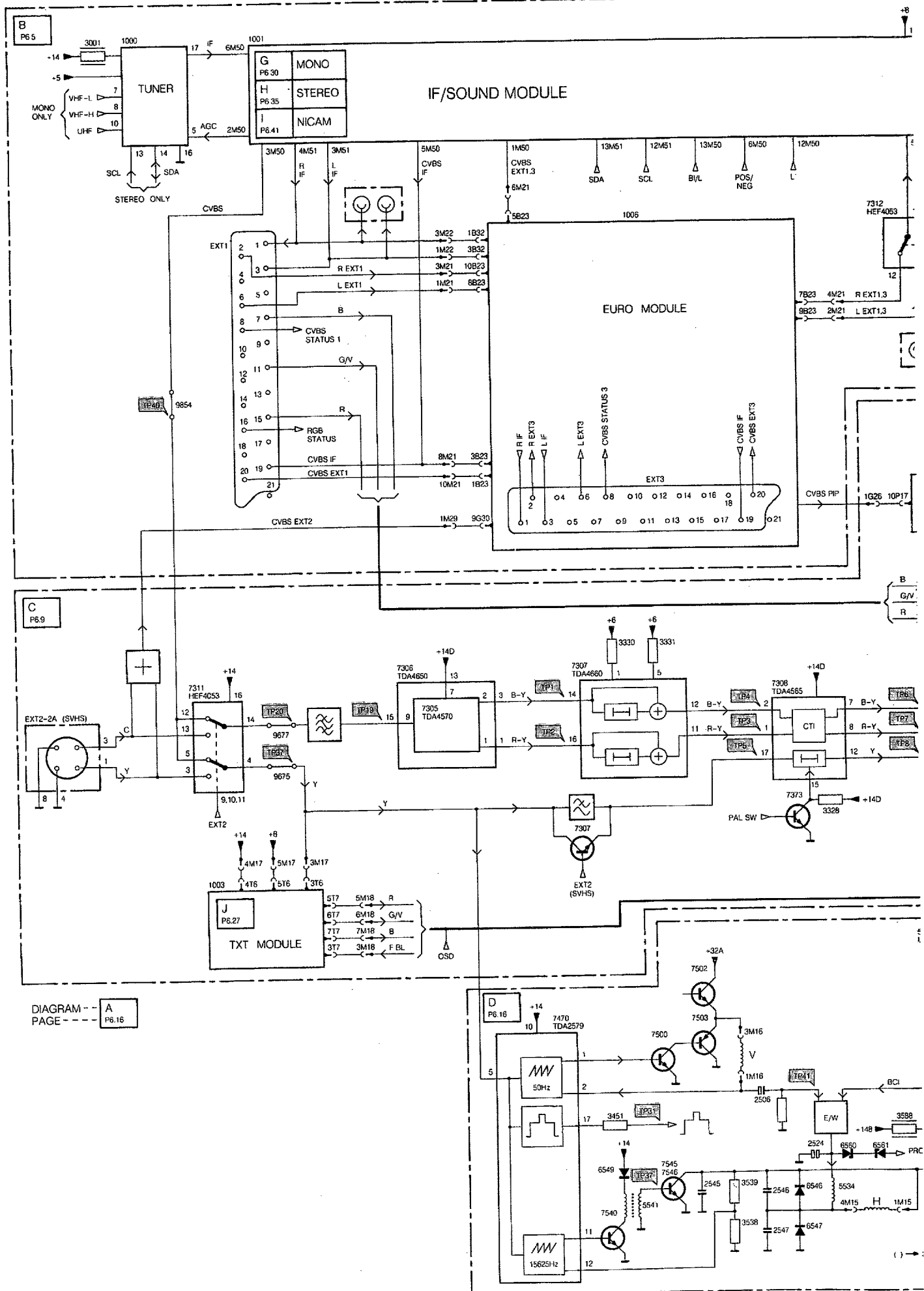
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T19/106

Fig. 4.3

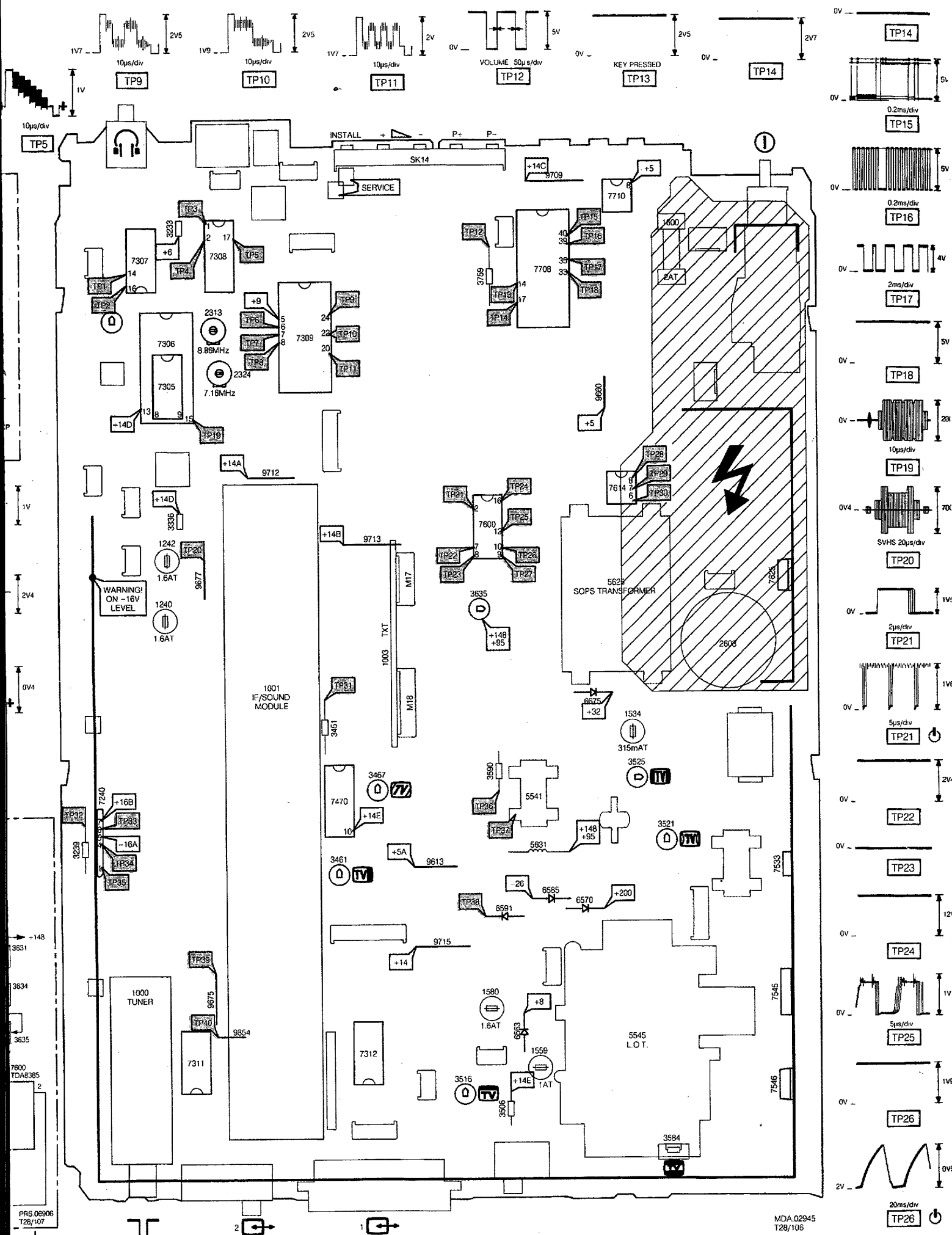


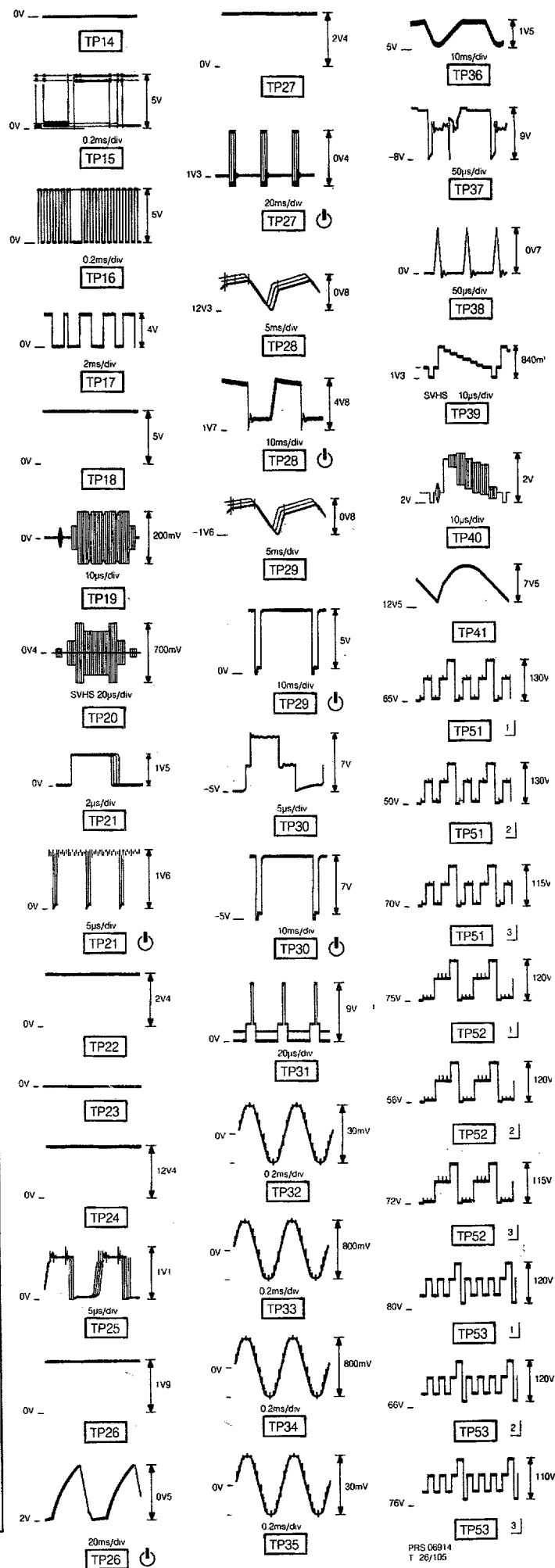
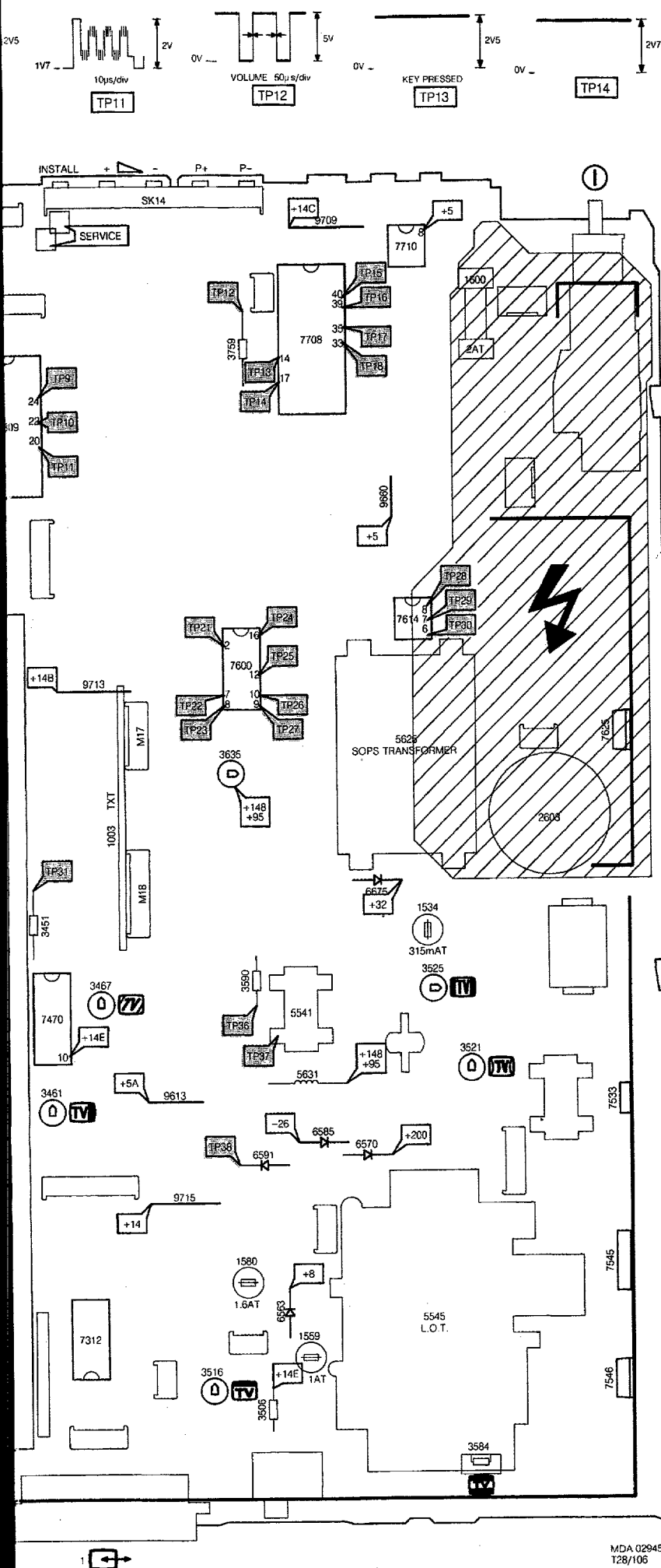
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T21-047

Fig. 4.4

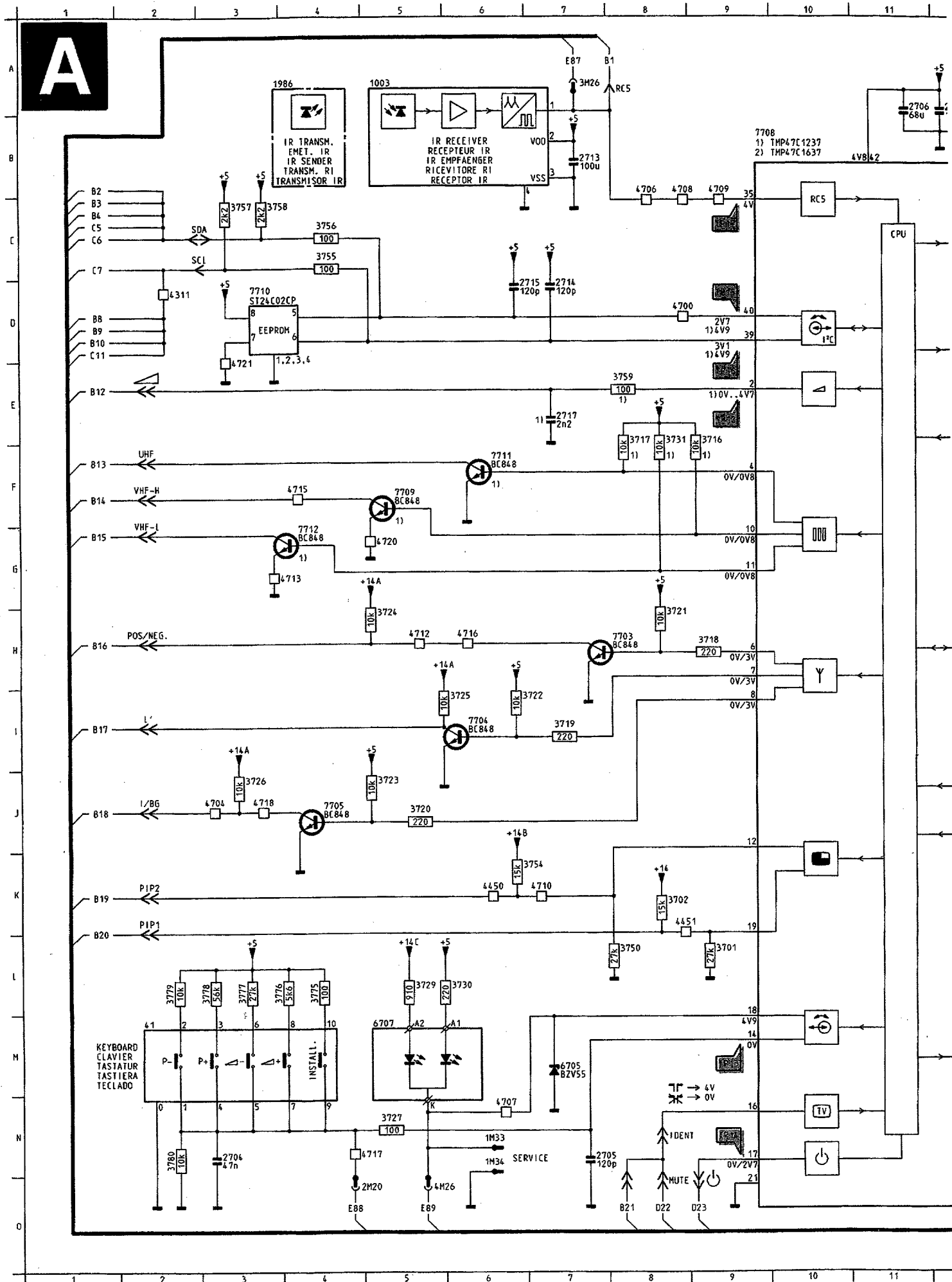


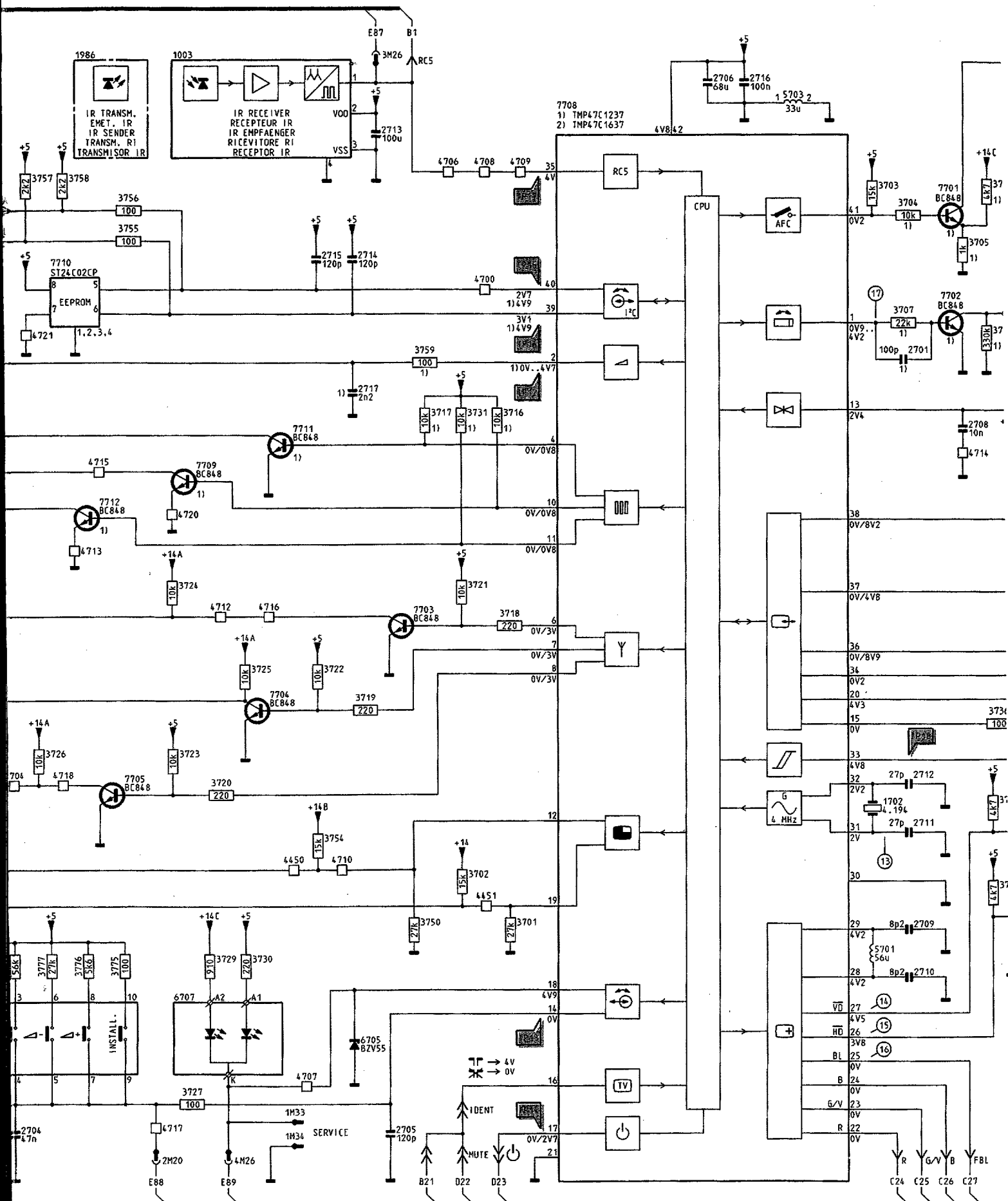






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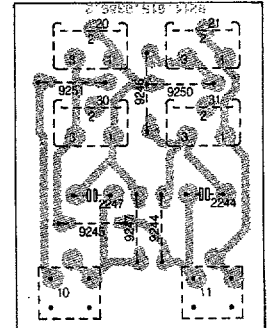
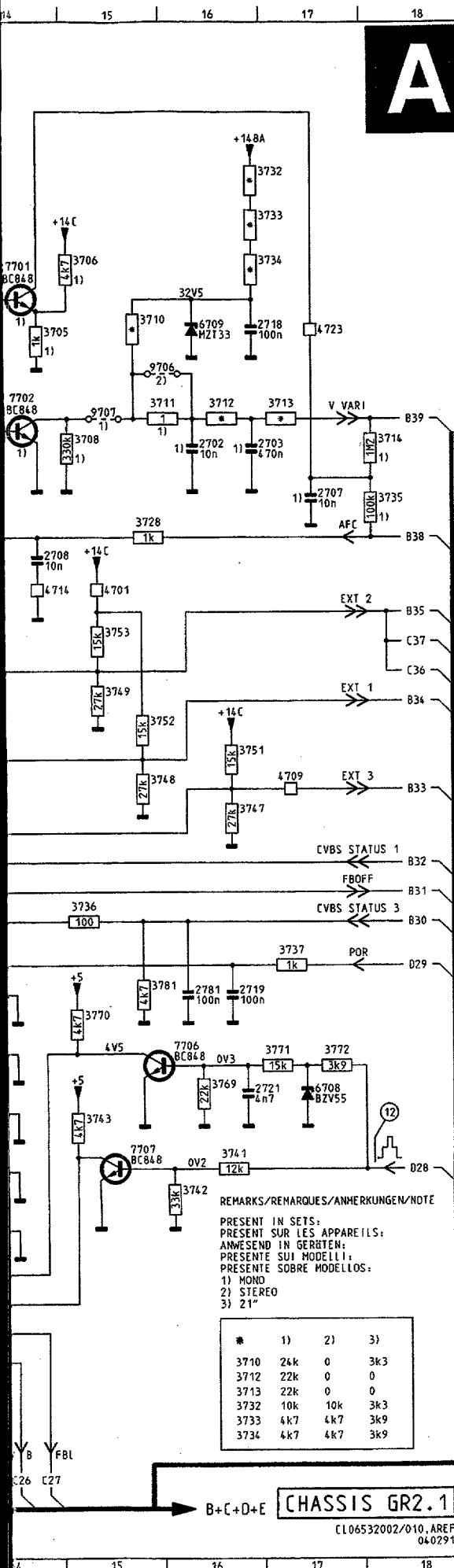




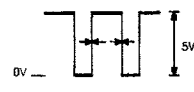
Loudspeaker module

Lautsprecher-Platte

Module haut parleur

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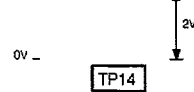
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2703	E17	7708	B 9
2704	N 3	7709	F 5
2705	N 7	7710	D 3
2706	A11	7711	F 6
2707	E17	7712	G 4
2708	F14	9706	D16
2709	L14	9707	D15
2710	L14		
2711	K14		
2712	J14		
2713	B 7		
2714	D 7		
2715	D 6		
2716	A12		
2717	E 7		
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2719	J16		
2721	K16		
2781	J16		
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3702	K 8		
3703	C13		
3704	C14		
3705	C14		
3706	C15		
3707	D14		
3708	D15		
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3711	D16		
3712	D16		
3713	D17		
3714	D18		
3716	E 9		
3717	E 8		
3718	H 9		
3719	I 7		
3720	J 5		
3721	H 8		
3722	I 6		
3723	J 5		
3724	H 5		
3725	I 6		
3726	J 3		
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3728	E15		
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3731	E 8		
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3733	B17		
3734	C17		
3735	E18		
3736	I15		
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3741	L16		
3742	L16		
3743	K15		
3747	H16		
3748	H15		
3749	G15		
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3751	H16		
3752	G15		
3753	F15		
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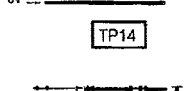
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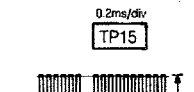
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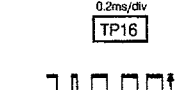
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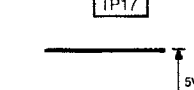
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TP15



TP16



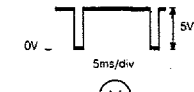
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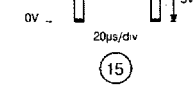
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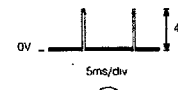
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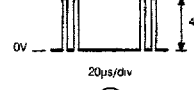
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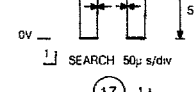
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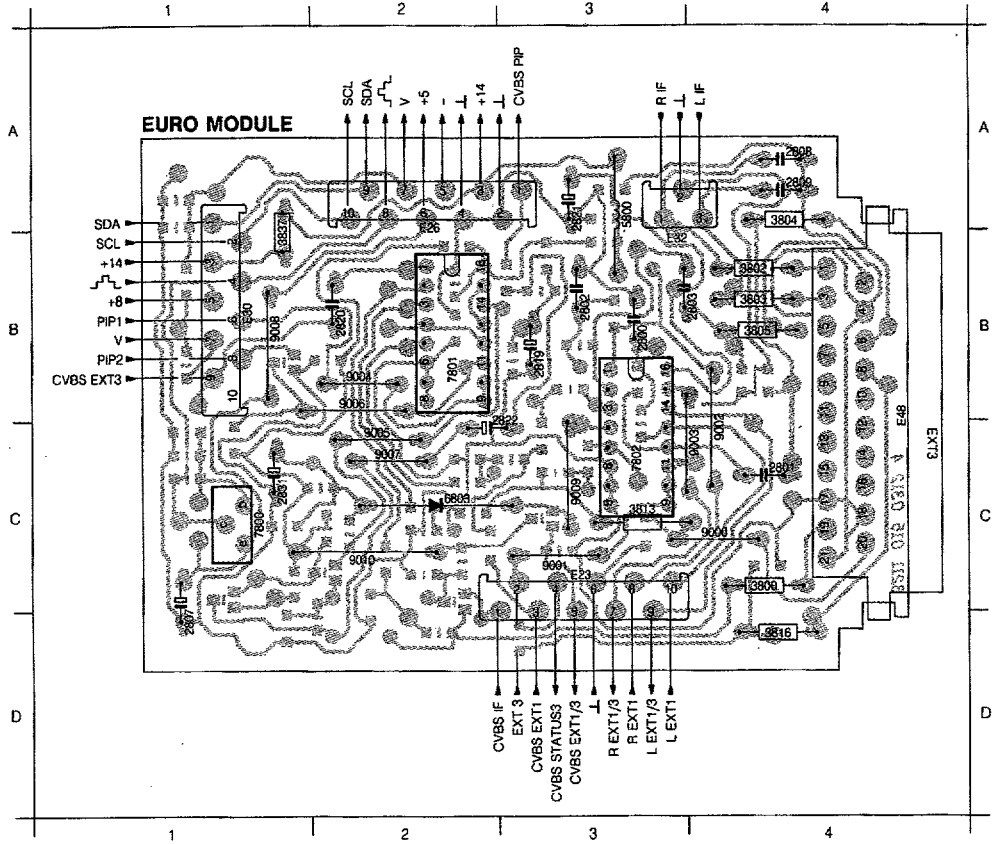
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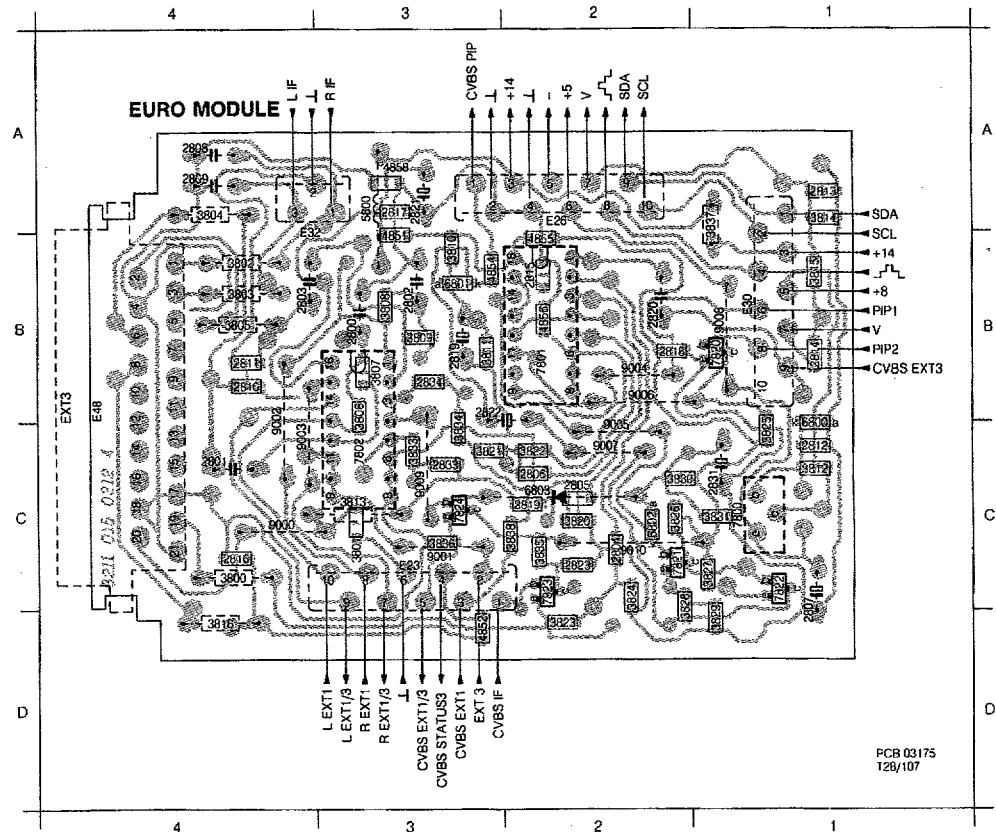
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Euro module
Euro-AV-Platte
Module Prise P rit l vision

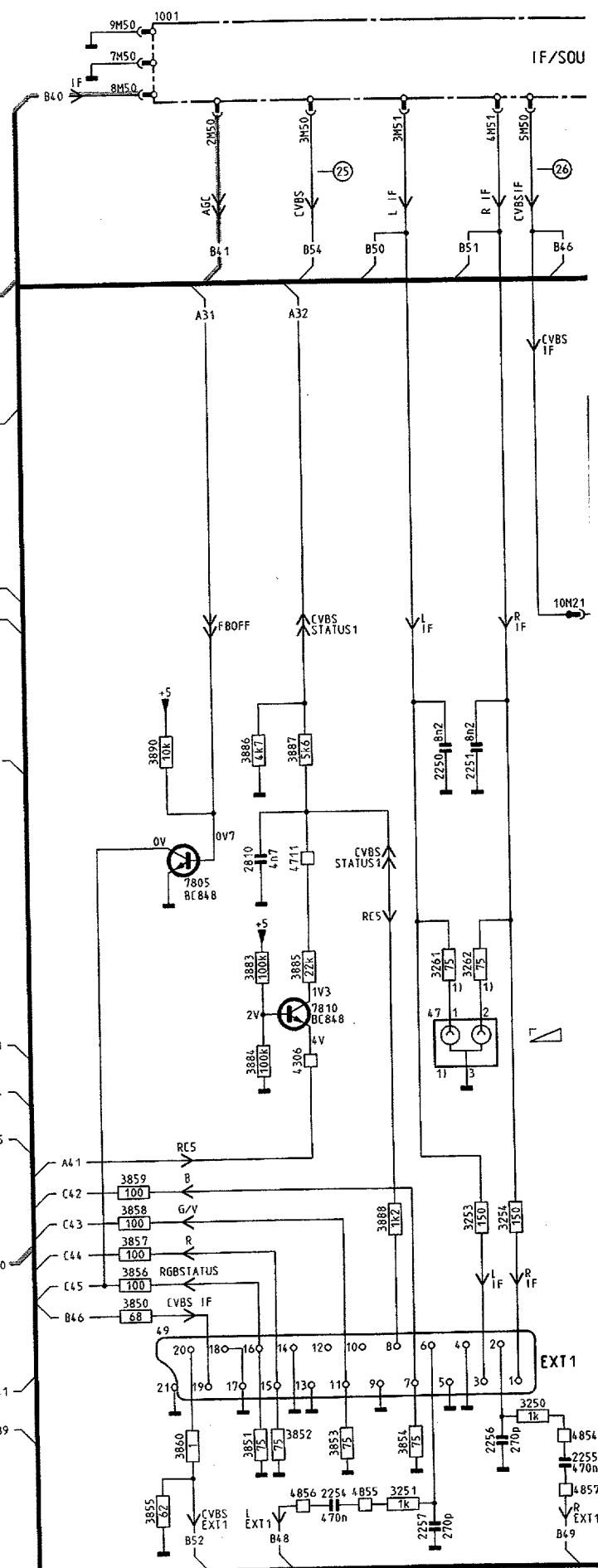
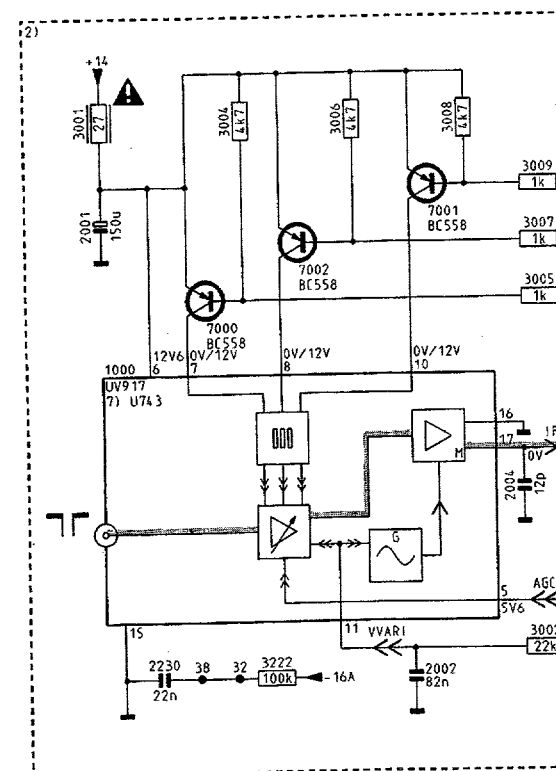
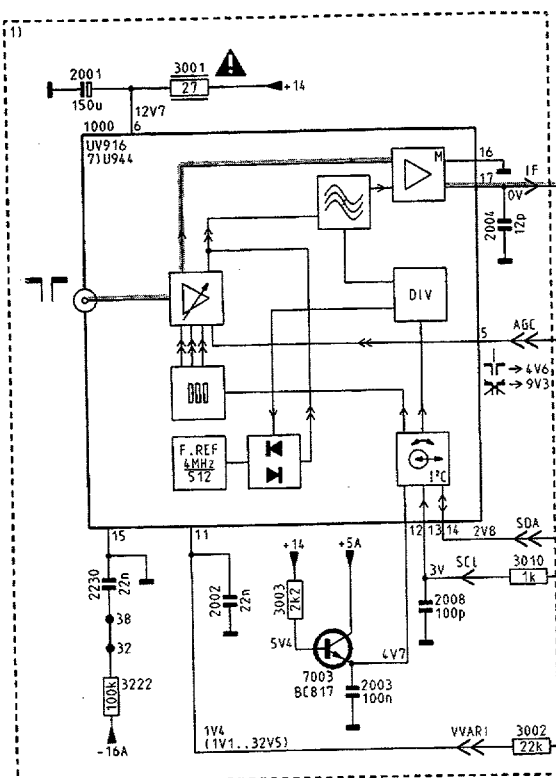


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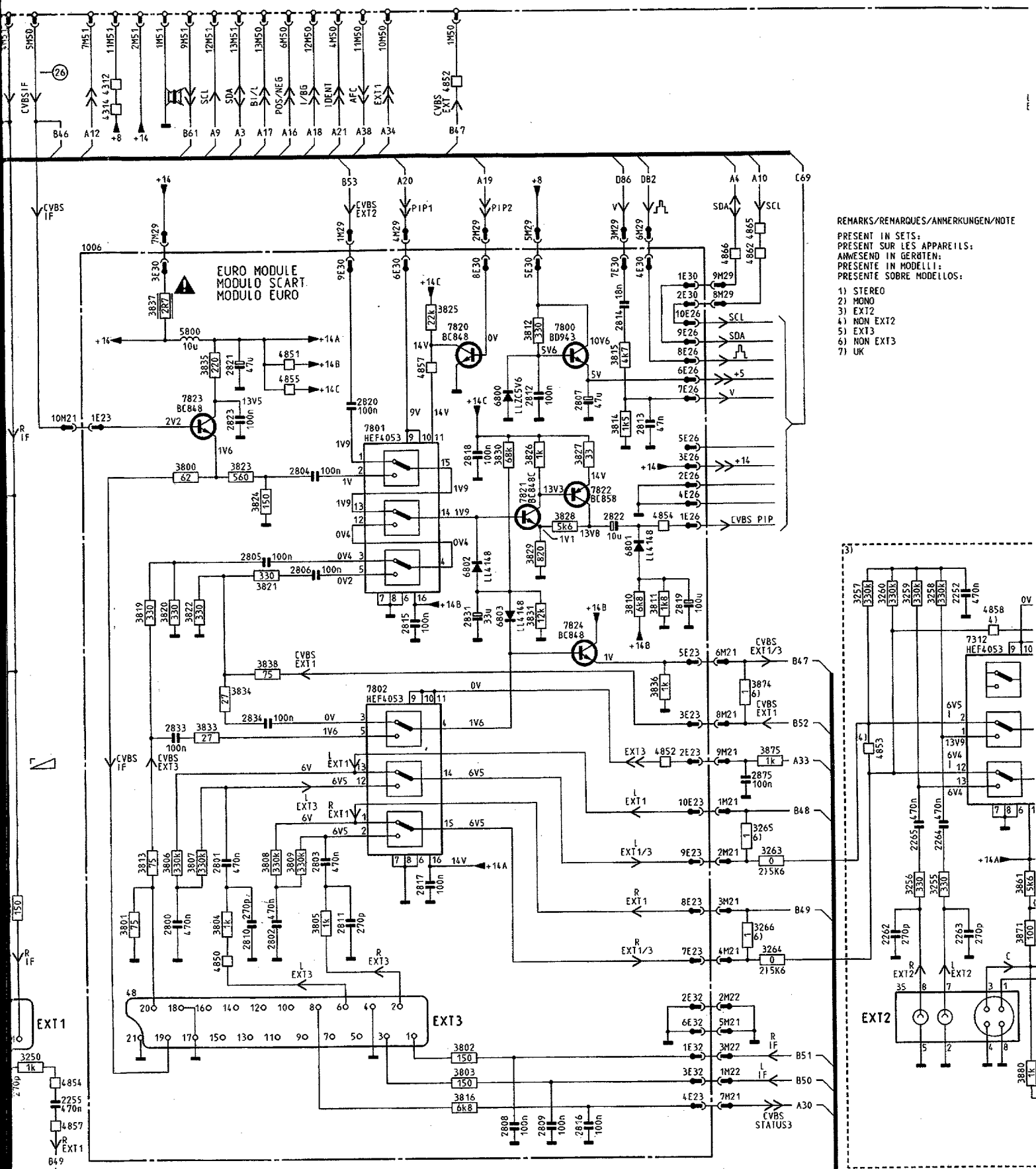
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T28/107

B



IF/SOUND MODULE ZF/TON MODUL MODULE FI/SON

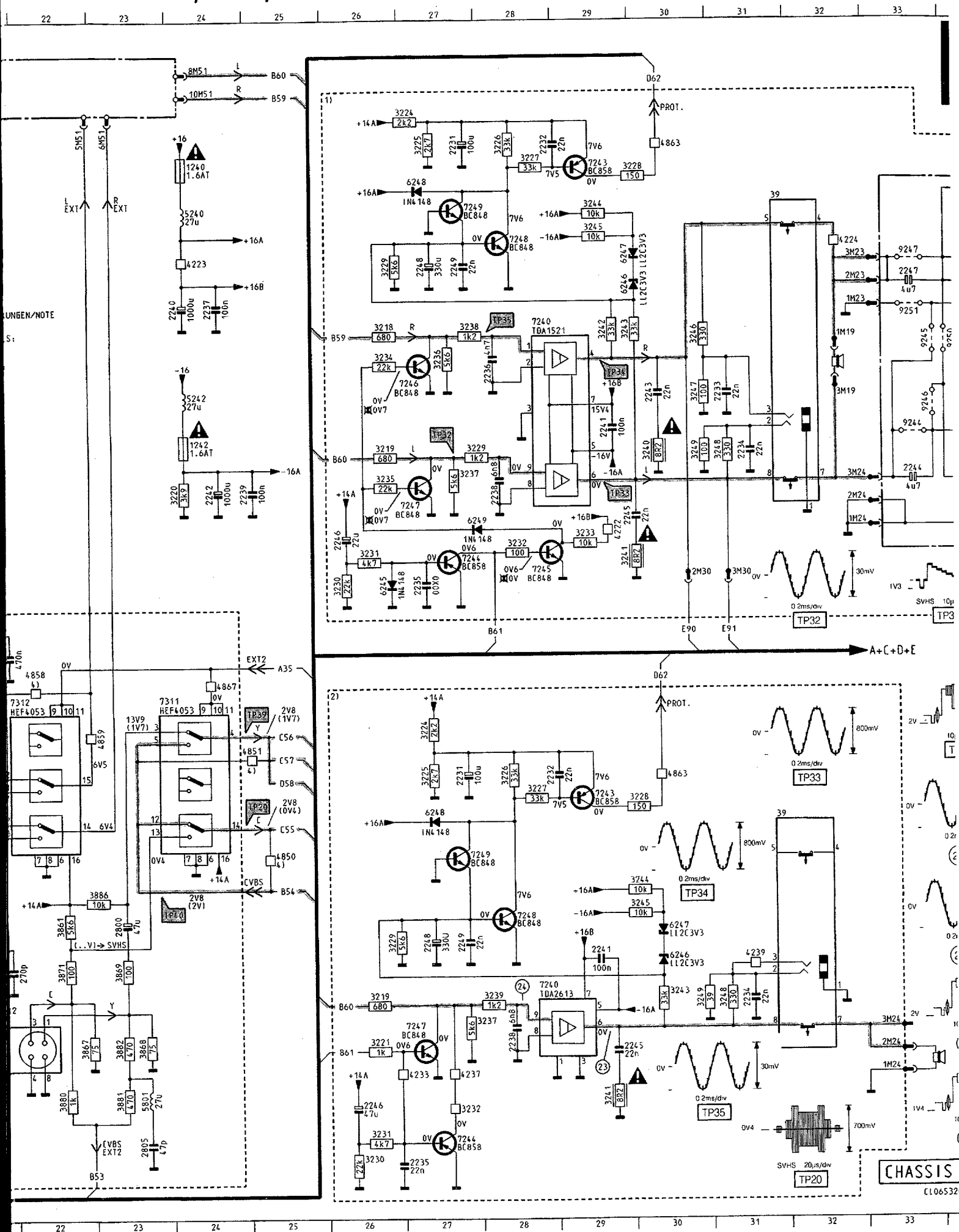
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H: STEREO/ESTEREO
I: NICAM



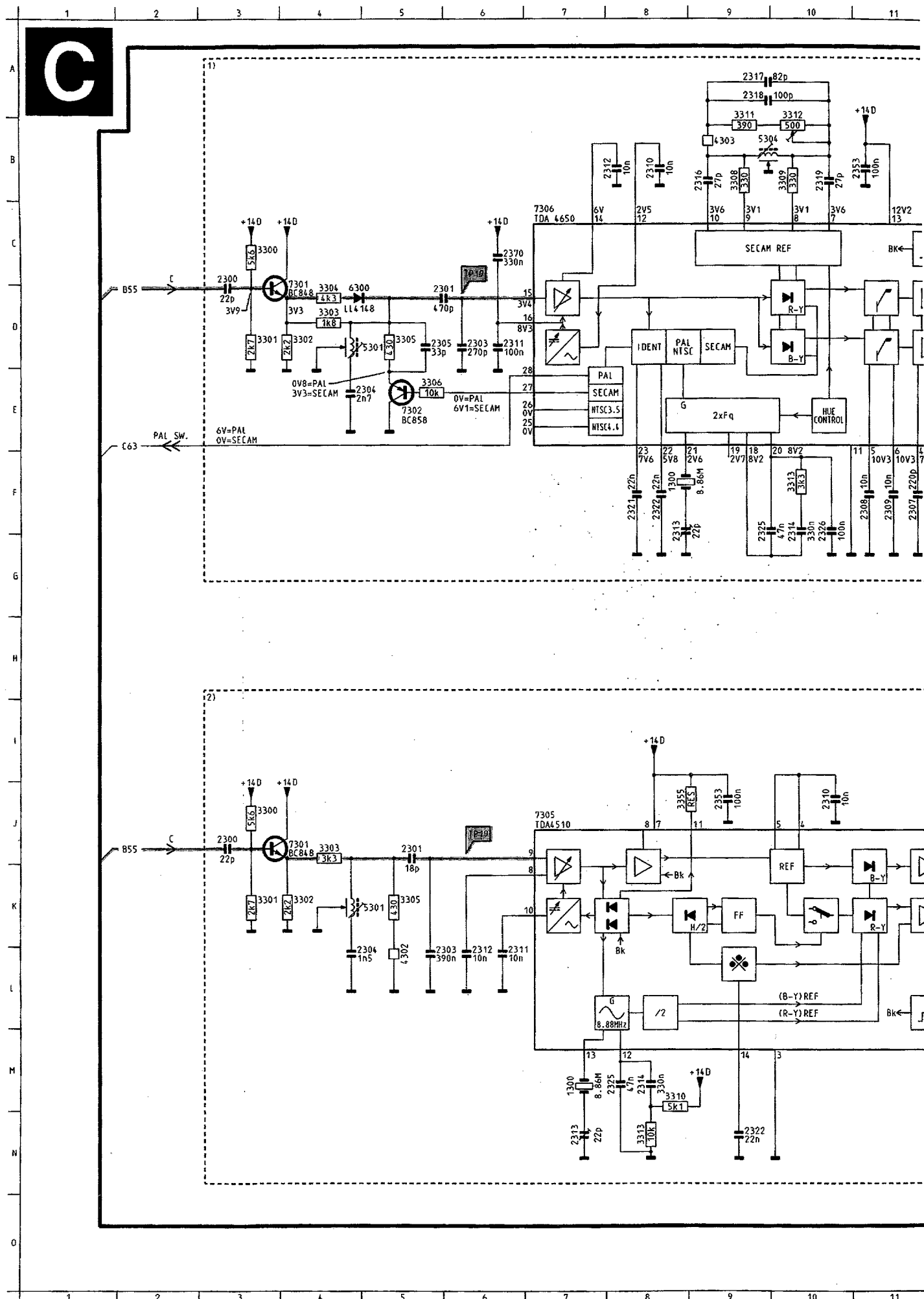
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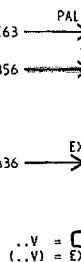
PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESENDE IN GERÄTEN:
PRESENTE IN MODELLI:
PRESENTE SOBRE MODELOS:

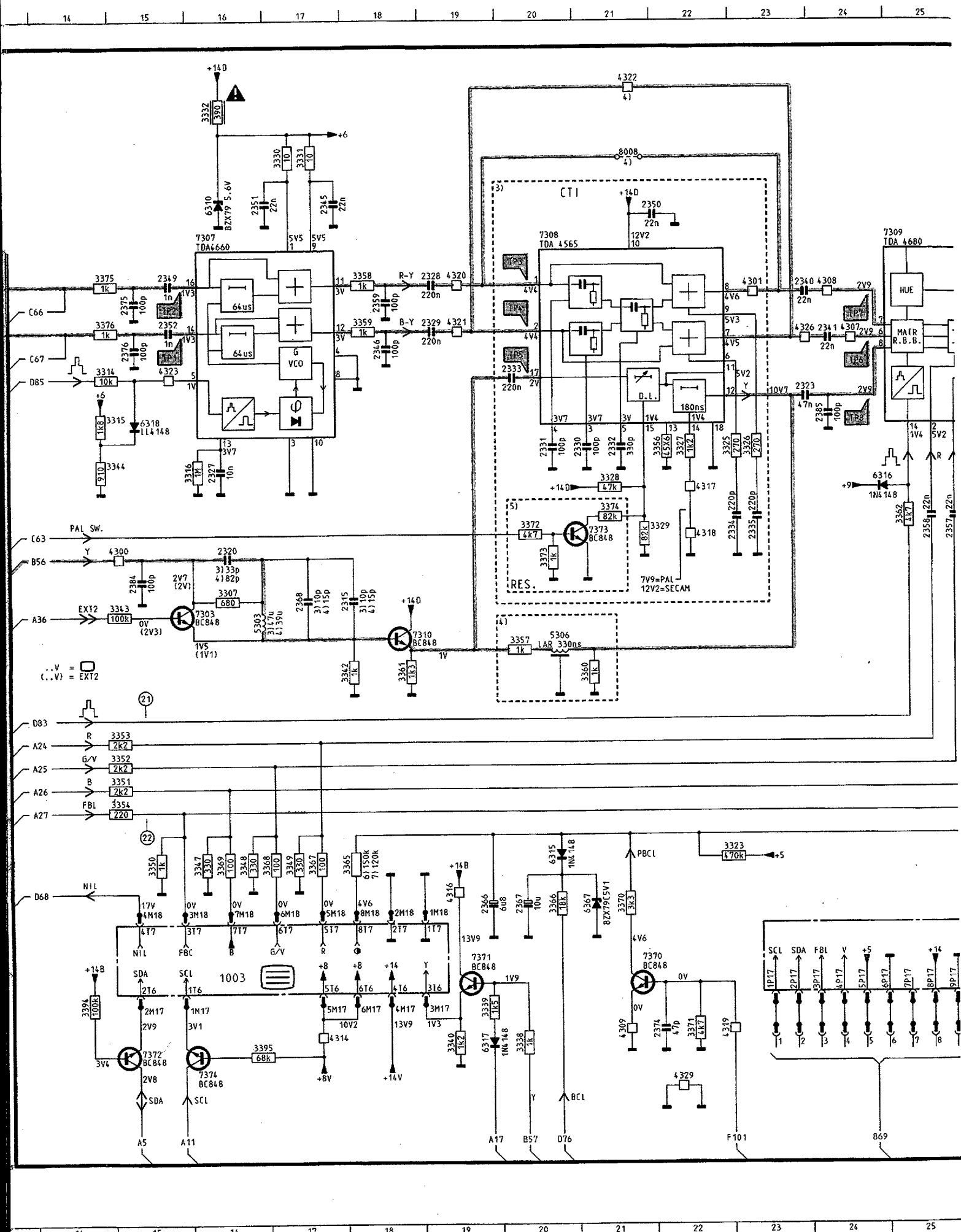
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2) MONO
3) EXT2
4) NON EXT2
5) EXT3
6) NON EXT3
7) UK

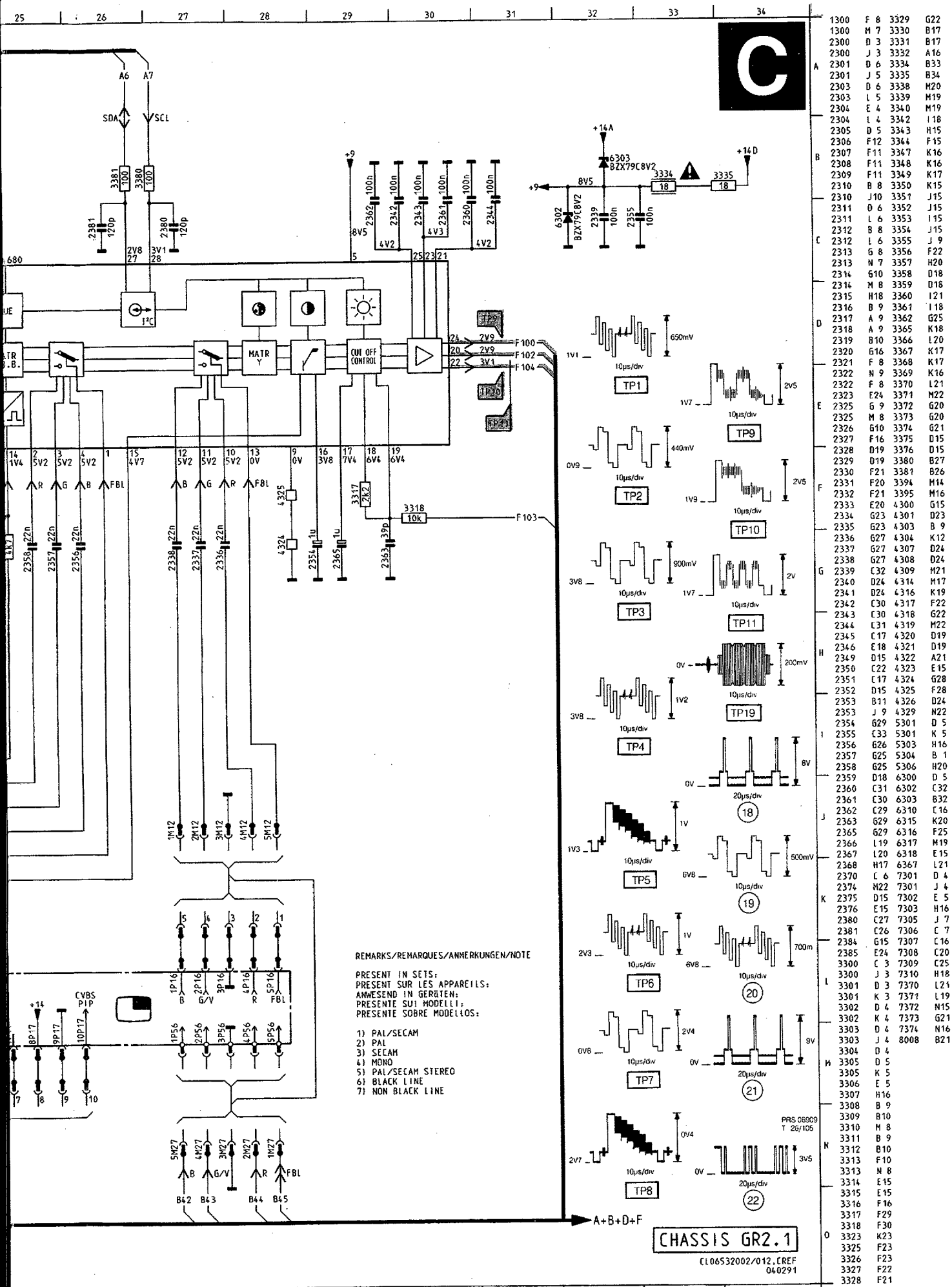




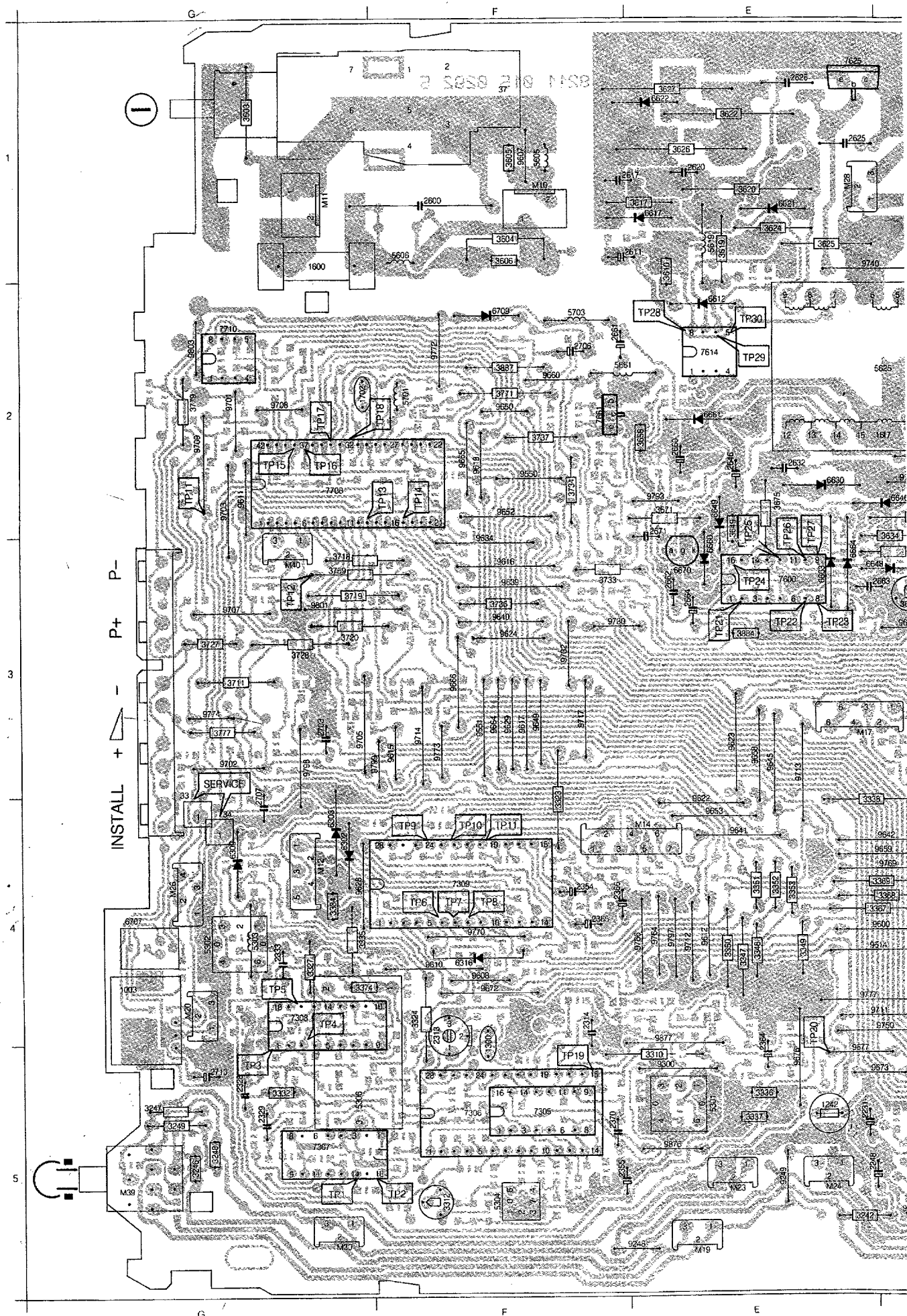


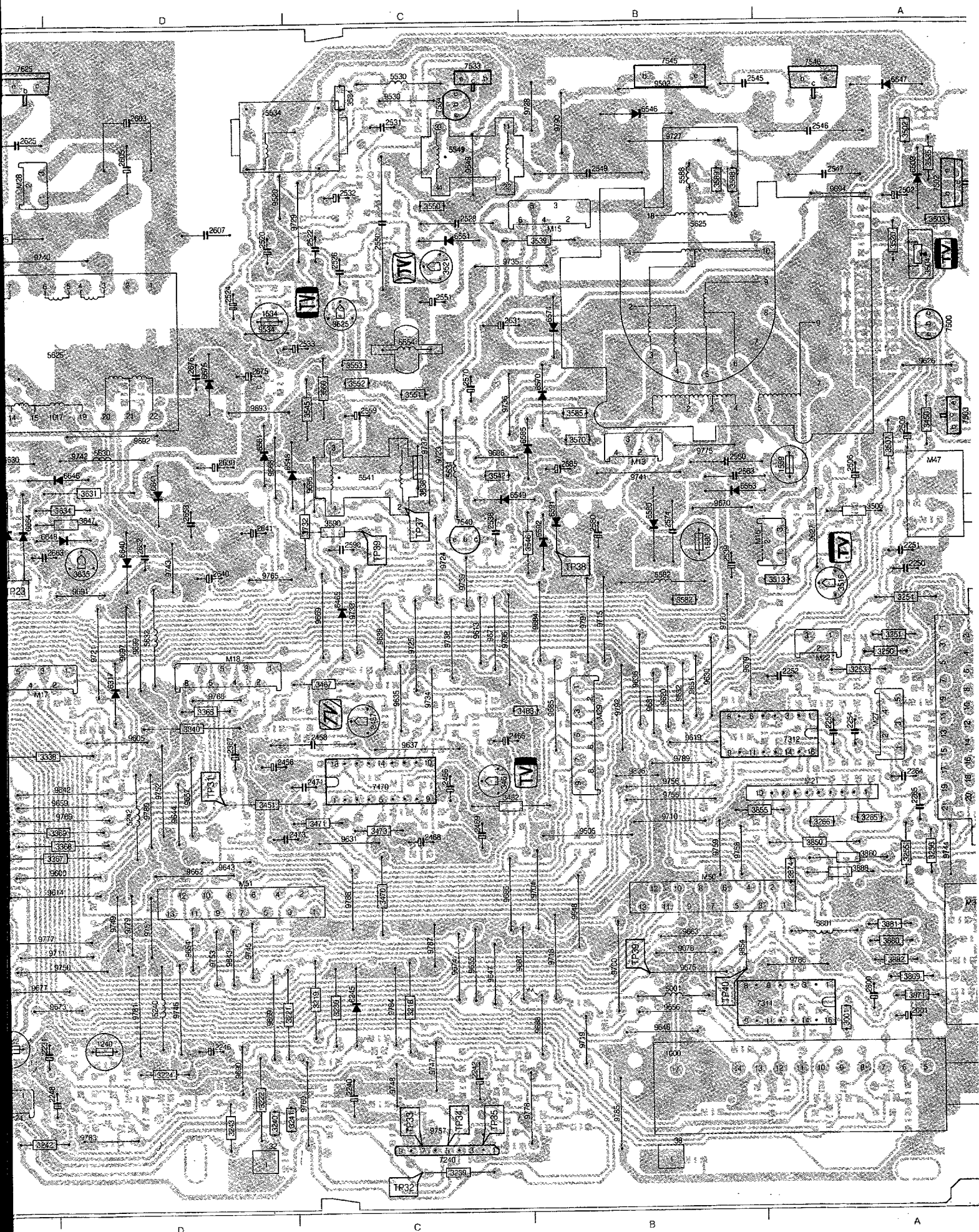


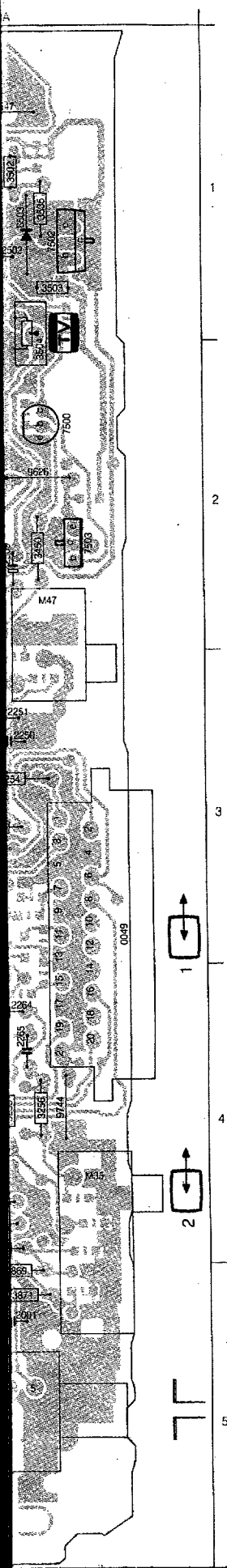




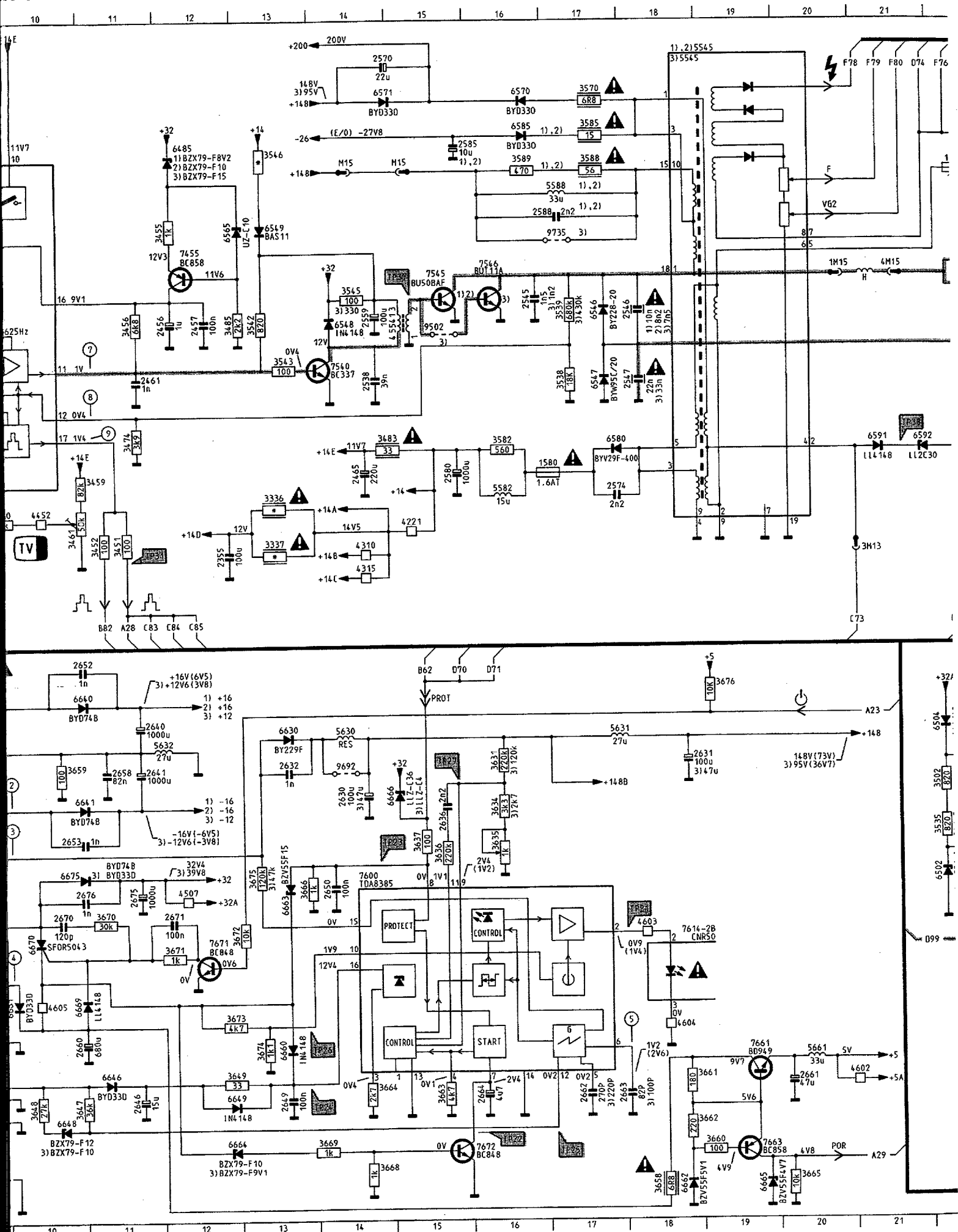
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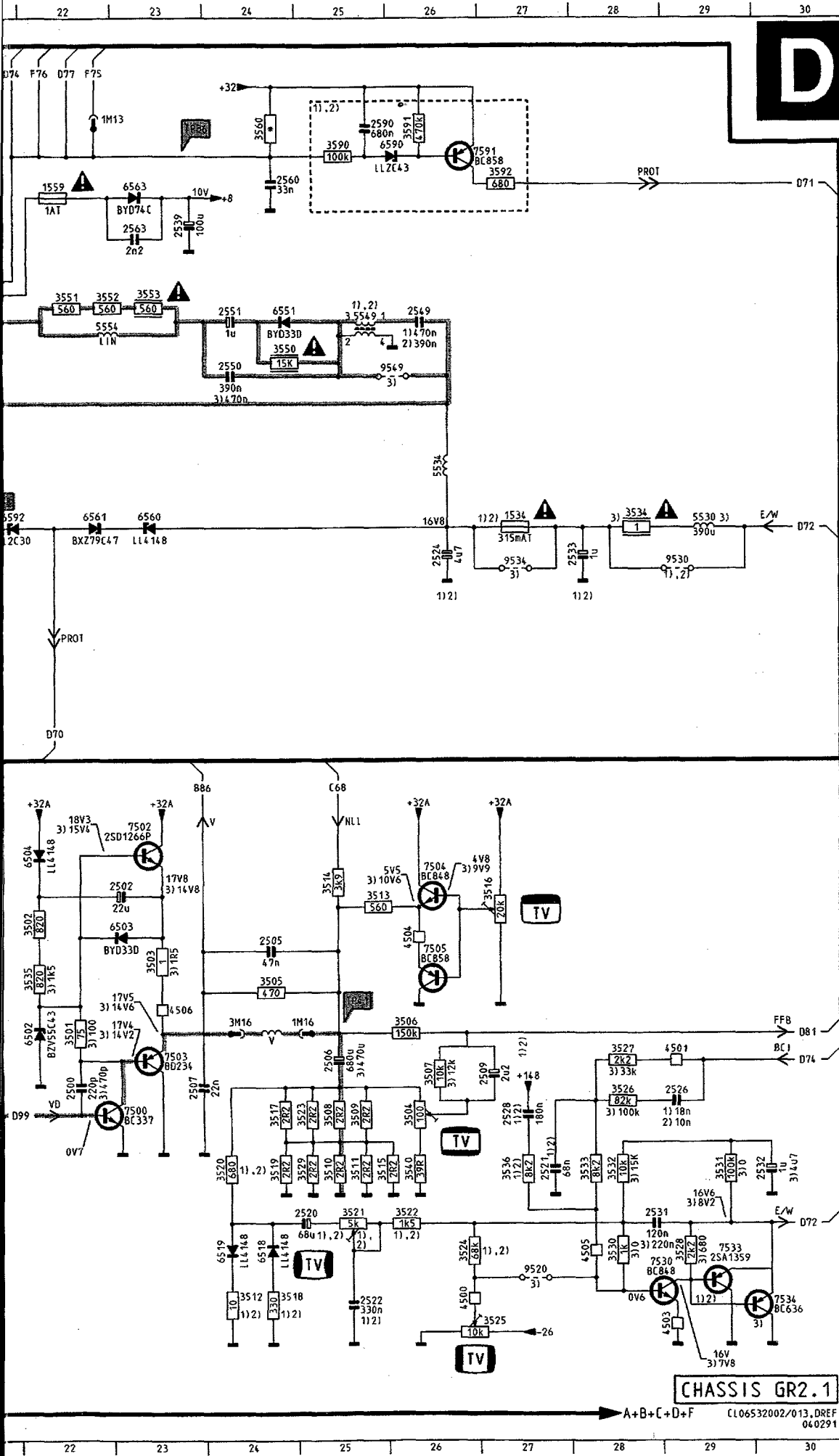




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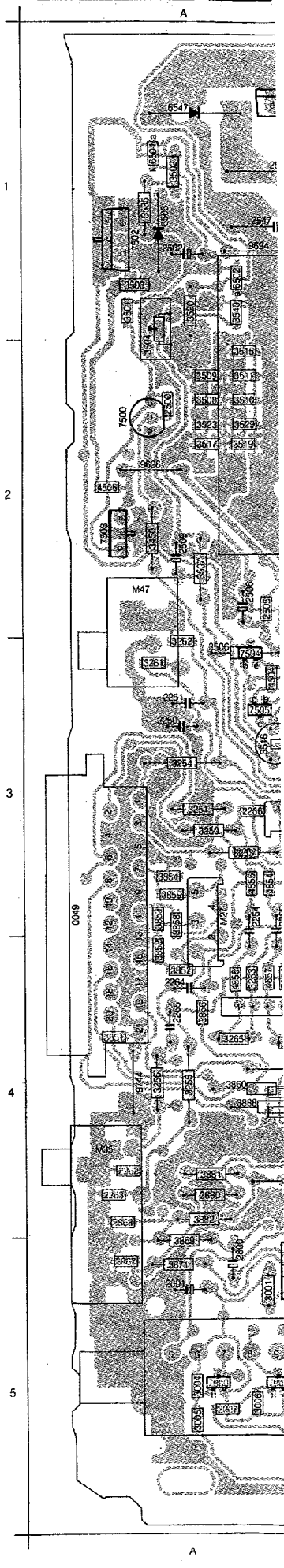
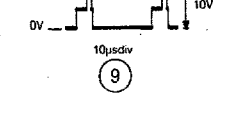
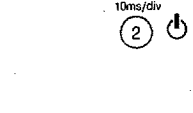
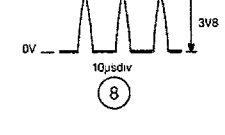
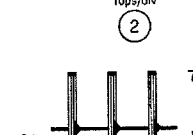
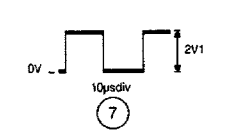
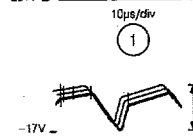
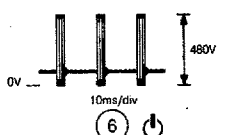
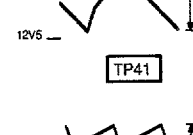
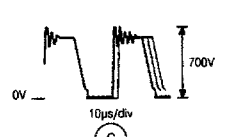
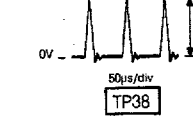
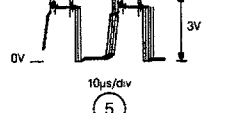
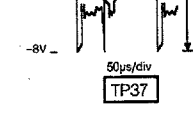
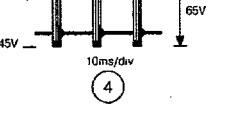
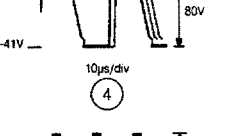
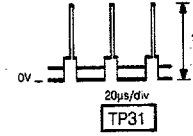
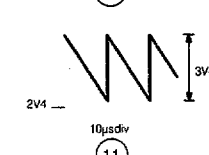
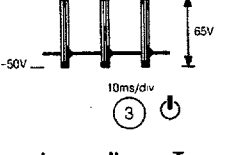
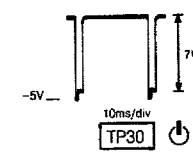
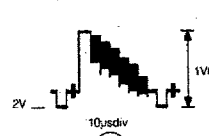
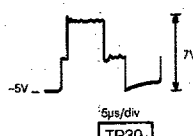
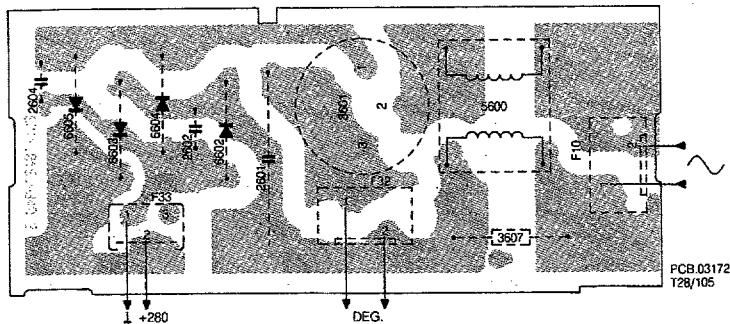
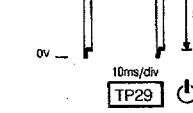
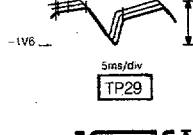
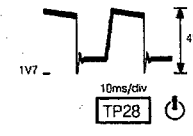
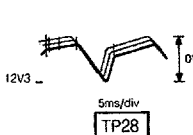
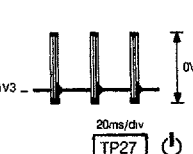
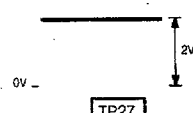
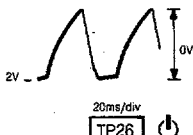
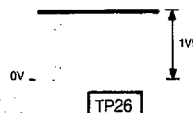
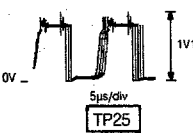
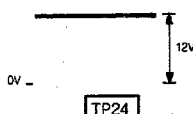
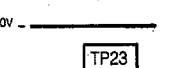
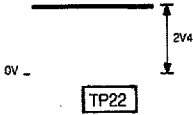
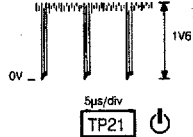
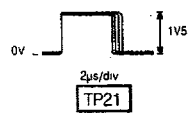
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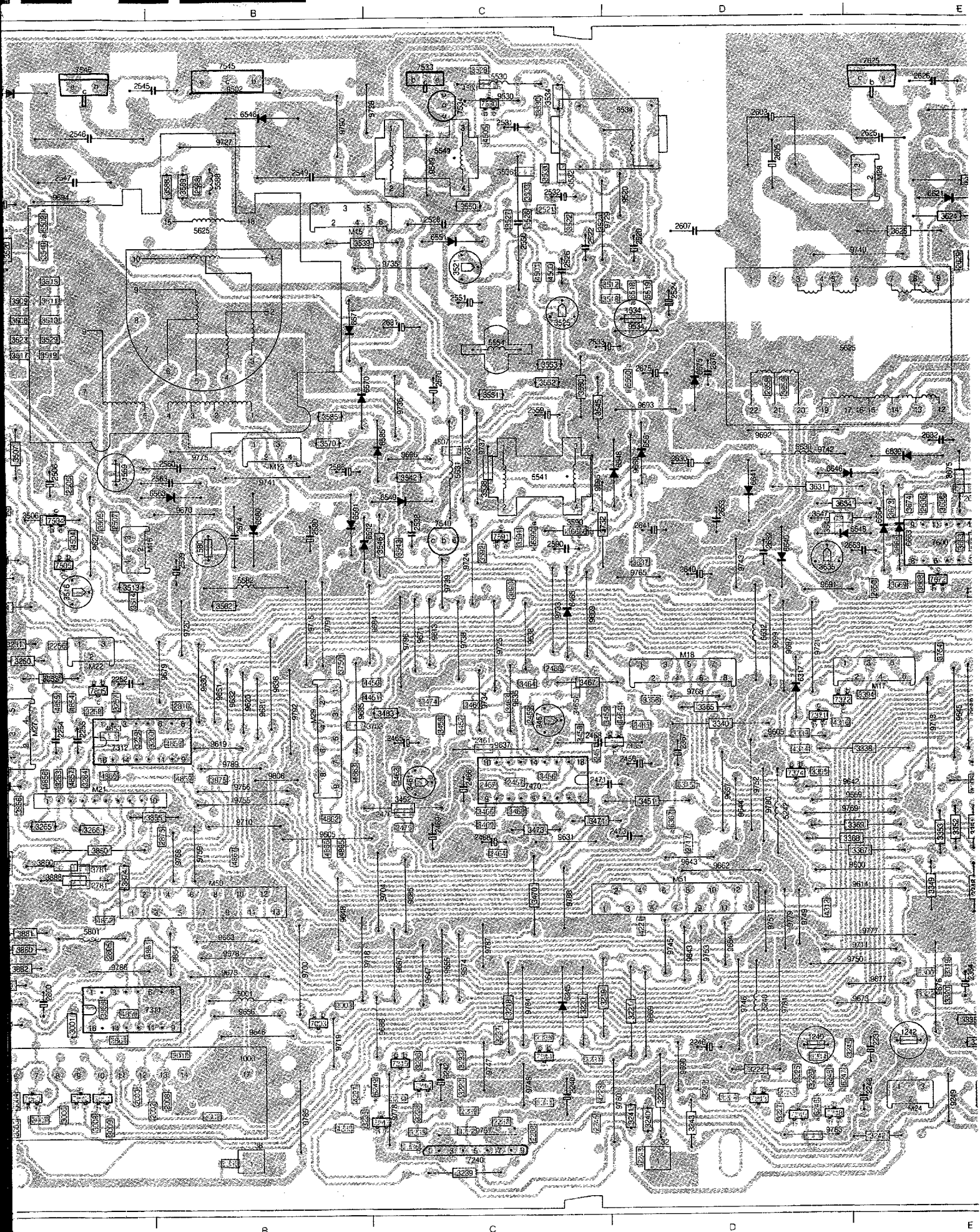


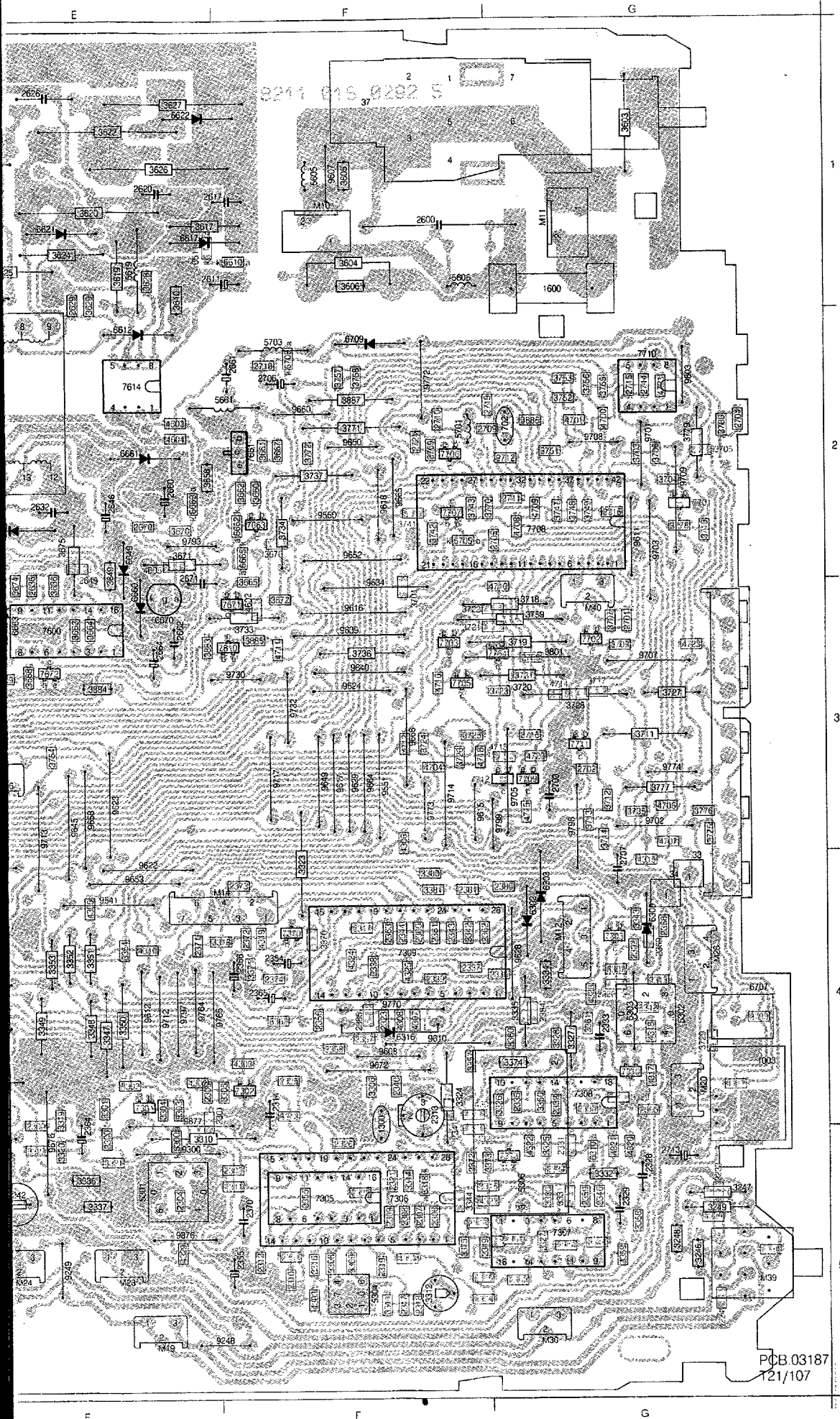


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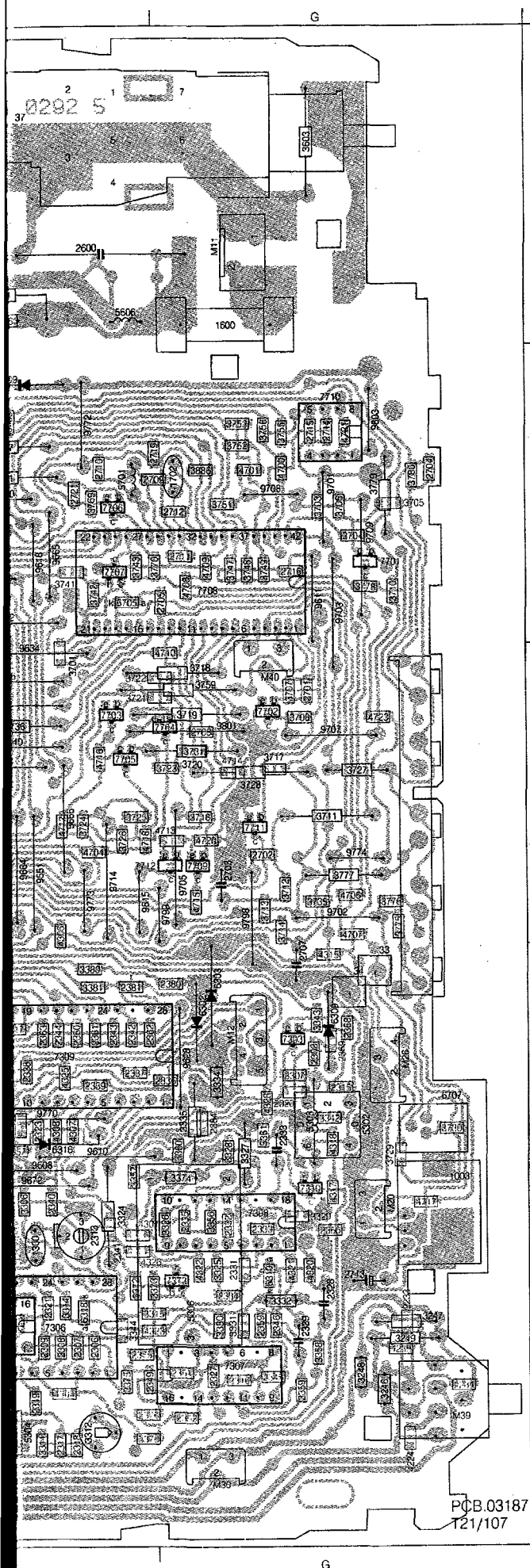
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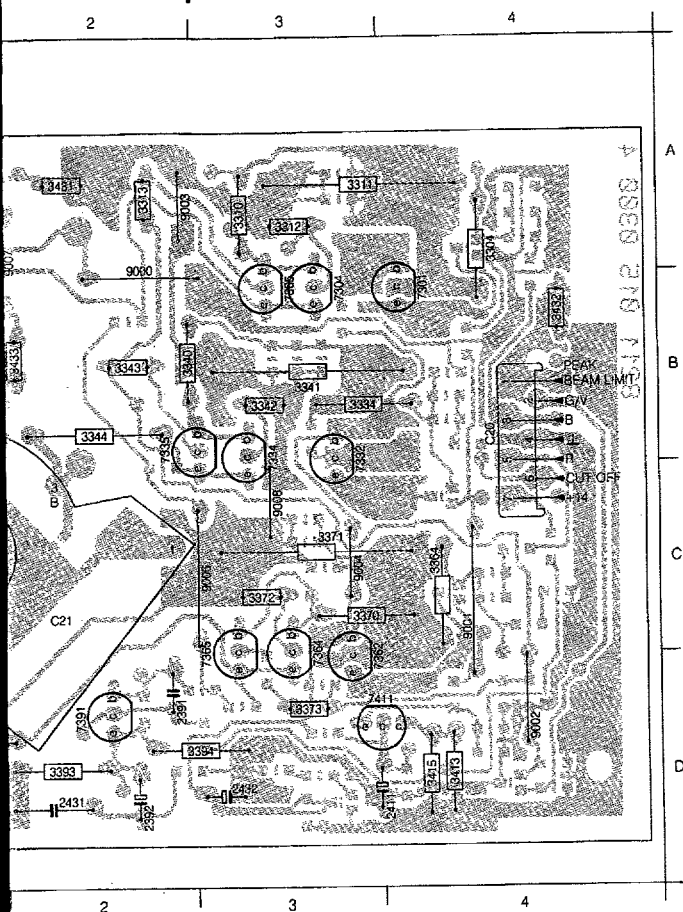


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2278 4G	2647 2G	3364 4G	3711 3A	4717 4A	7502 1G	9718 4G	
2279 4G	2648 2G	3365 4G	3712 3A	4718 3G	7504 3G	9719 5G	
2280 4G	2649 2G	3366 3G	3713 3A	4720 3A	7504 3G	9720 3G	
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2282 4G	2651 2G	3368 4G	3716 3A	4723 3A	7530 1G	9723 2G	
2283 4G	2652 2G	3369 4A	3717 3A	4850 5G	7533 1G	9724 3G	
2284 4G	2653 2G	3370 5G	3718 3A	4851 4G	7534 1G	9725 3G	
2285 4G	2654 2G	3371 5G	3719 3A	4852 4G	7535 1G	9726 3G	
2286 4G	2655 2G	3372 5G	3720 2A	4853 3G	7545 1G	9728 1G	
2287 4G	2656 2G	3373 5G	3721 3G	4854 3G	7546 1G	9729 1G	
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2291 4G	2660 2G	3377 5G	3725 3G	4858 4G	7625 1G	9734 3G	
2292 4G	2661 2G	3378 5G	3726 3G	4859 4G	7662 2G	9735 1G	
2293 4G	2662 2G	3379 5G	3727 3A	4860 4G	7663 2G	9736 2G	
2294 4G	2663 2G	3380 4G	3728 3A	4862 4G	7671 3G	9737 2G	
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2296 4G	2665 2G	3382 4G	3730 4A	4865 4G	7701 2A	9739 3G	
2297 4G	2666 2G	3383 4G	3731 4A	4866 4G	7702 3A	9740 3G	
2298 4G	2667 2G	3384 4G	3732 3G	4867 4G	7703 3G	9741 2G	
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2300 4G	2669 2G	3386 4G	3734 2G	5240 5G	7705 3G	9743 3G	
2301 4G	2670 2G	3387 4G	3735 3A	5242 4G	7706 2G	9744 4G	
2302 4G	2671 2G	3388 4G	3736 3G	5301 5G	7707 2G	9745 4G	
2303 4G	2672 2G	3389 4G	3737 3G	5302 4A	7708 2A	9746 4G	
2304 4G	2673 2G	3390 4G	3741 2G	5303 4A	7709 3A	9747 5G	
2305 4G	2674 2G	3391 4G	3742 2G	5304 5G	7710 2A	9748 5G	
2306 4G	2675 2G	3392 4G	3743 2G	5306 5A	7711 3A	9749 4G	
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2308 4G							

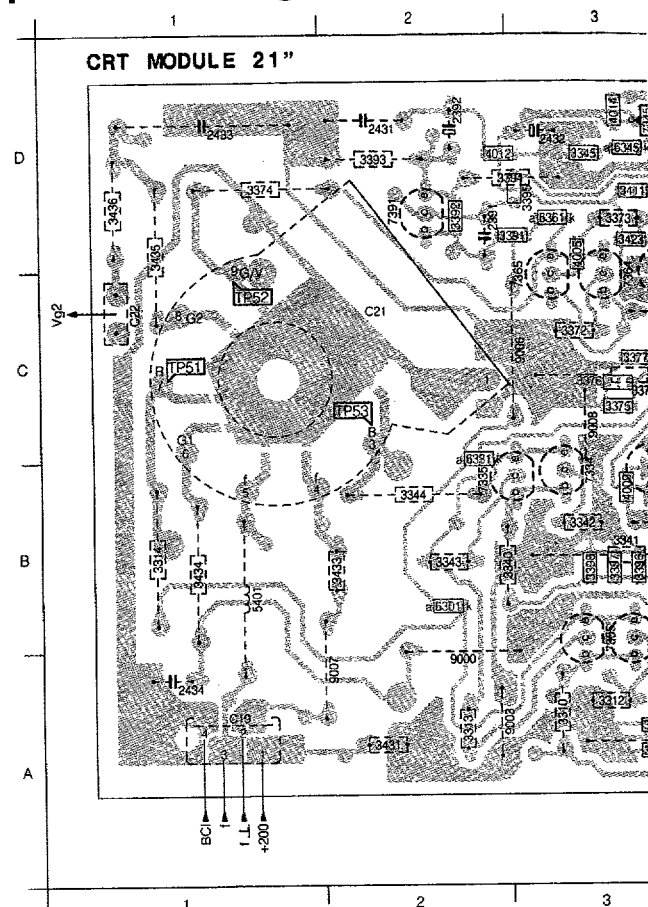
CRT MODULE 21"

Component	Value / Part Number
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C20	B4
C21	C2
C22	C1
2301	A4
2331	B4
2361	C4
2391	D2
2392	D2
2411	D4
2412	D4
2421	D4
2431	D2
2432	D3
2433	D1
2434	A1
3301	B4
3302	A4
3303	A4
3304	A4
3310	A3
3311	A3
3312	A3
3313	A2
3314	B1
3315	A3
3316	A3
3331	B4
3332	B4
3333	B4
3334	B3
3340	B3
3341	B3
3342	B3
3343	B2

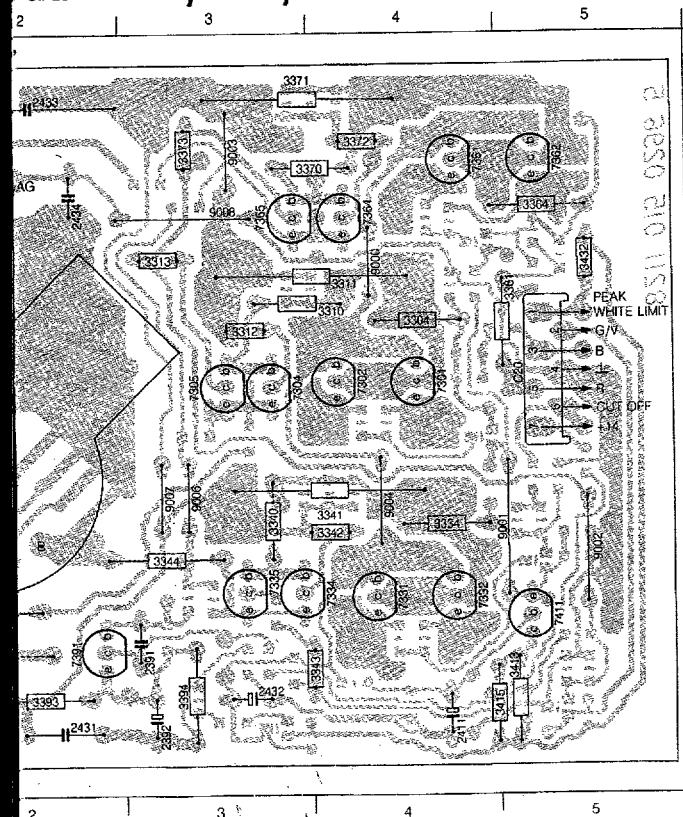
Module 21" / Bildröhren Modul 21" / Module support tube image 21"



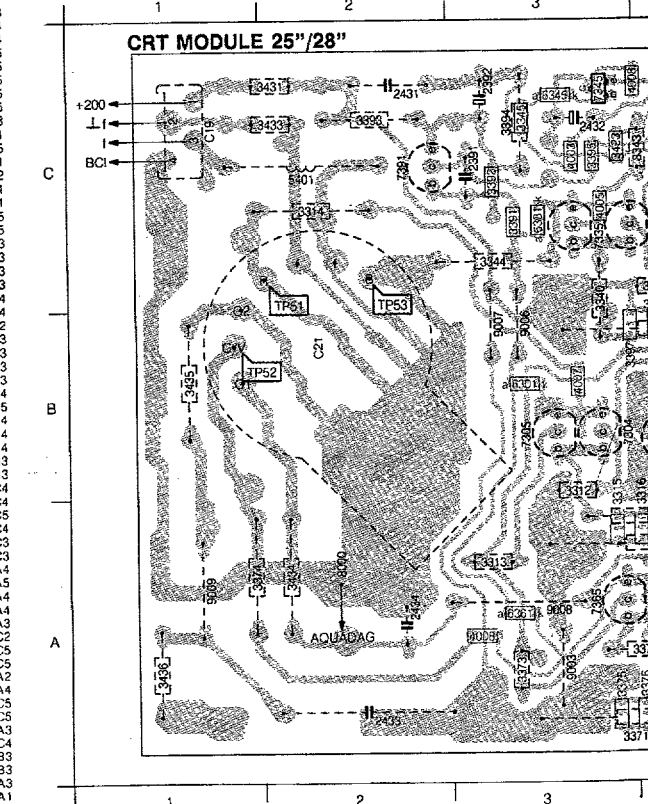
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C20	B4	3423	D3
C21	C2	3424	D2
C22	C1	3425	D1
2301	A4	3426	B2
2331	B4	3427	B1
2361	C4	3428	D1
2391	D2	3429	D1
2392	D2	3430	C4
2411	D4	3431	C4
2412	D4	3432	C4
2421	D4	3433	B2
2431	D2	3434	B1
2432	D3	3435	D1
2433	D1	3436	D1
2434	A1	3437	B4
3301	B4	3438	D2
3302	A4	3439	D2
3303	A4	3440	B1
3304	A4	3441	B2
3310	A3	3442	C2
3311	A3	3443	C3
3312	A3	3444	C3
3313	A3	3445	C3
3314	A1	3446	C3
3315	A3	3447	C3
3316	A3	3448	C3
3331	B4	3449	C3
3332	B4	3450	C3
3333	B4	3451	C3
3334	B3	3452	C3
3340	D1	3453	C3
3341	B3	3454	C3
3342	B3	3455	C3
3343	B2	3456	C3
3344	B2	3457	C3
3345	D3	3458	C3
3361	C4	3459	C3
3362	C4	3460	C3
3363	C4	3461	C3
3364	C4	3462	C3
3370	C3	3463	C3
3371	C3	3464	C3
3372	C3	3465	C3
3373	D3	3466	C3
3374	D1	3467	C3
3375	C3	3468	C3
3376	C3	3469	C3
3377	C3	3470	C3
3391	D2	3471	C3
3392	D2	3472	C3
3393	D2	3473	C3
3394	D2	3474	C3
3395	D3	3475	C3
3396	B3	3476	C3
3397	B3	3477	C3
3398	B3	3478	C3
3411	D3	3479	C3
3412	D4	3480	C3
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3414	D4	3482	C3
3415	D4	3483	C3
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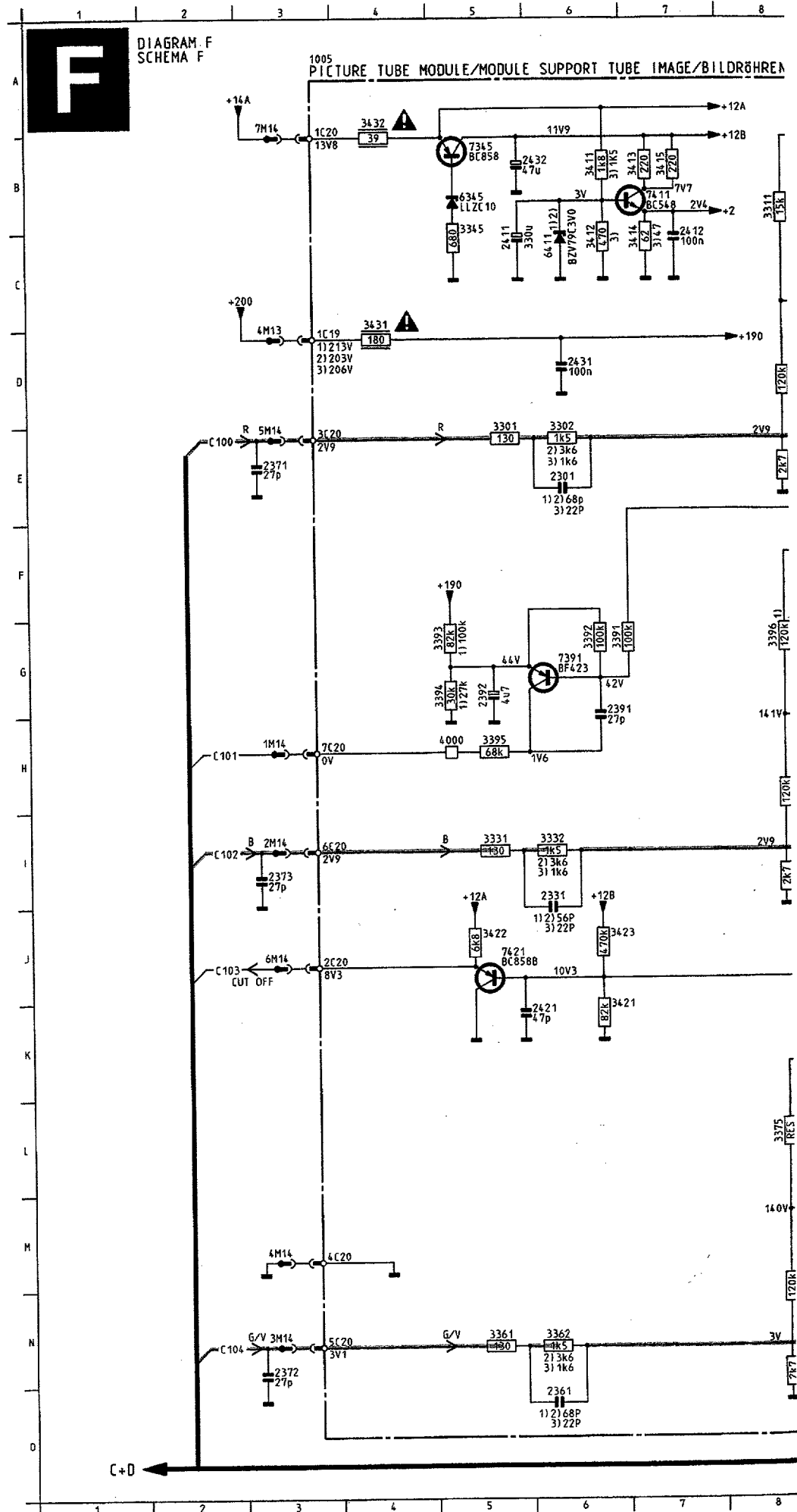
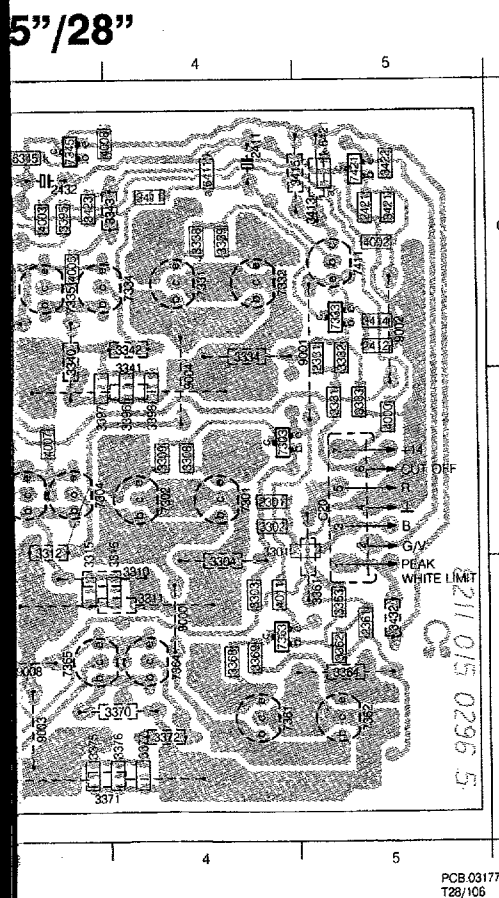
Module 25"/28" / Bildröhren Modul 25"/28" / Module support tube image 25"/28"

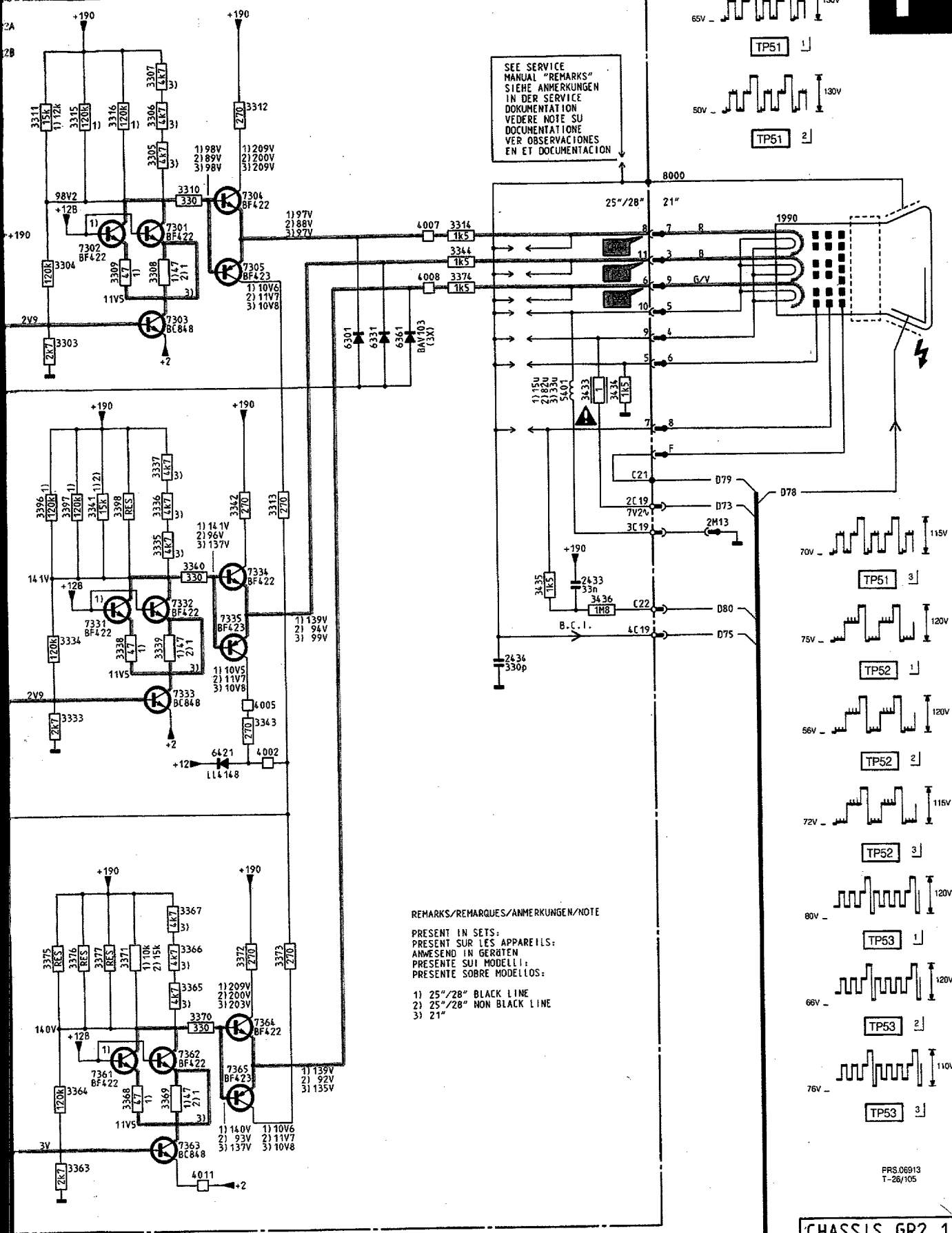


C19	B5	3397	B3
C20	C1	3398	B4
C21	B2	3411	C4
2301	B4	3412	C5
2331	C5	3413	C5
2361	A5	3414	C5
2391	C3	3421	C5
2392	C3	3422	C5
2411	C4	3423	C5
2412	C5	3424	C5
2421	C5	3425	C5
2431	C1	3426	C5
2432	C2	3427	C5
2433	A2	3428	C5
2434	A2	3429	C5
3301	B4	3430	C5
3302	B4	3431	C5
3303	A4	3432	C5
3304	B4	3433	C5
3308	B4	3434	A2
3309	B4	3435	B1
3310	A4	3436	A1
3311	A4	3437	B5
3312	B3	3438	B5
3313	A3	3439	B5
3314	C2	3440	B5
3315	B3	3441	C5
3316	B4	3442	C5
3331	B5	3443	C5
3332	C5	3444	C5
3333	B5	3445	C5
3334	C4	3446	C5
3338	C4	3447	C5
3339	C4	3448	C5
3340	C3	3449	C5
3341	C4	3450	C5
3342	C4	3451	C5
3343	C4	3452	C5
3344	C3	3453	C5
3345	C3	3454	C5
3361	A5	3455	C5
3362	A5	3456	C5
3363	A5	3457	C5
3364	A5	3458	C5
3365	A4	3459	C5
3369	A4	3460	C5
3370	A3	3461	C5
3371	A3	3462	C5
3372	A4	3463	C5
3373	A3	3464	C5
3374	A1	3465	C5
3375	A3	3466	C5
3376	A4	3467	C5
3377	A4	3468	C5
3391	C3	3469	C5
3392	C3	3470	C5
3393	C2	3471	C5
3394	C3	3472	C5
3395	C3	3473	C5
3396	B4	3474	C5



6.25





REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELOS:

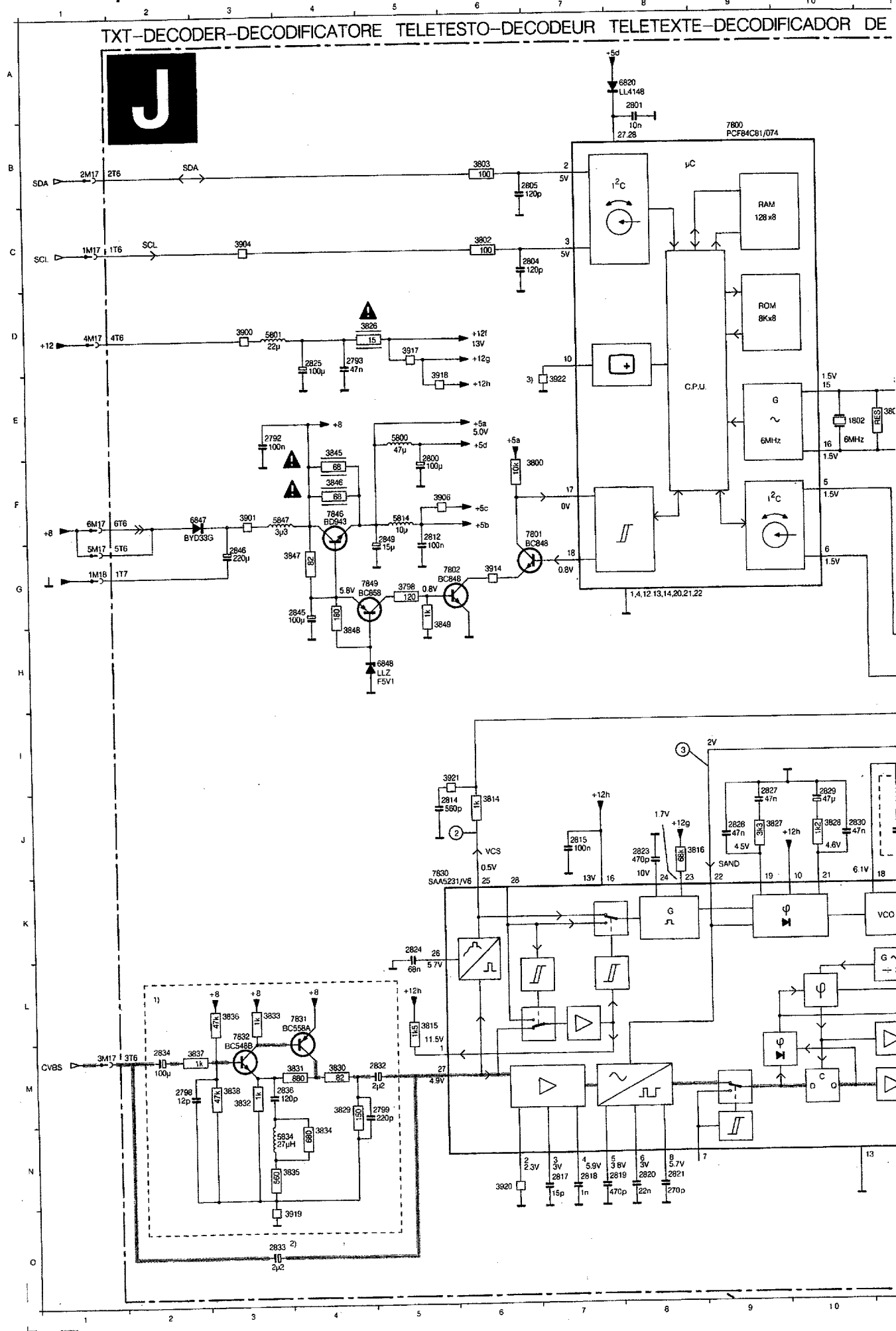
- 1) 25"/28" BLACK LINE
2) 25"/28" NON BLACK LINE
3) 21"

PRS.06913
T-26/105

CHASSIS GR2.1

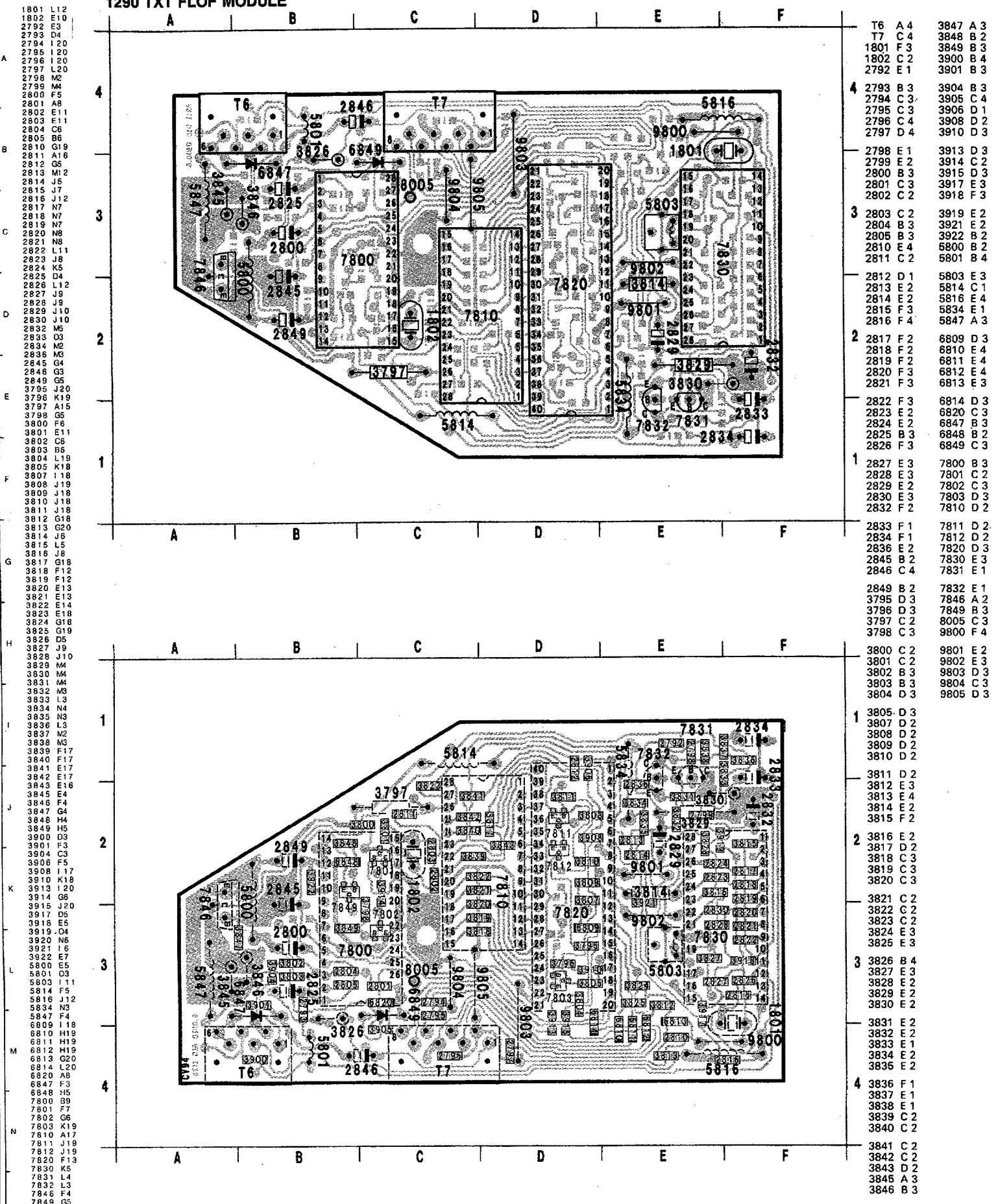
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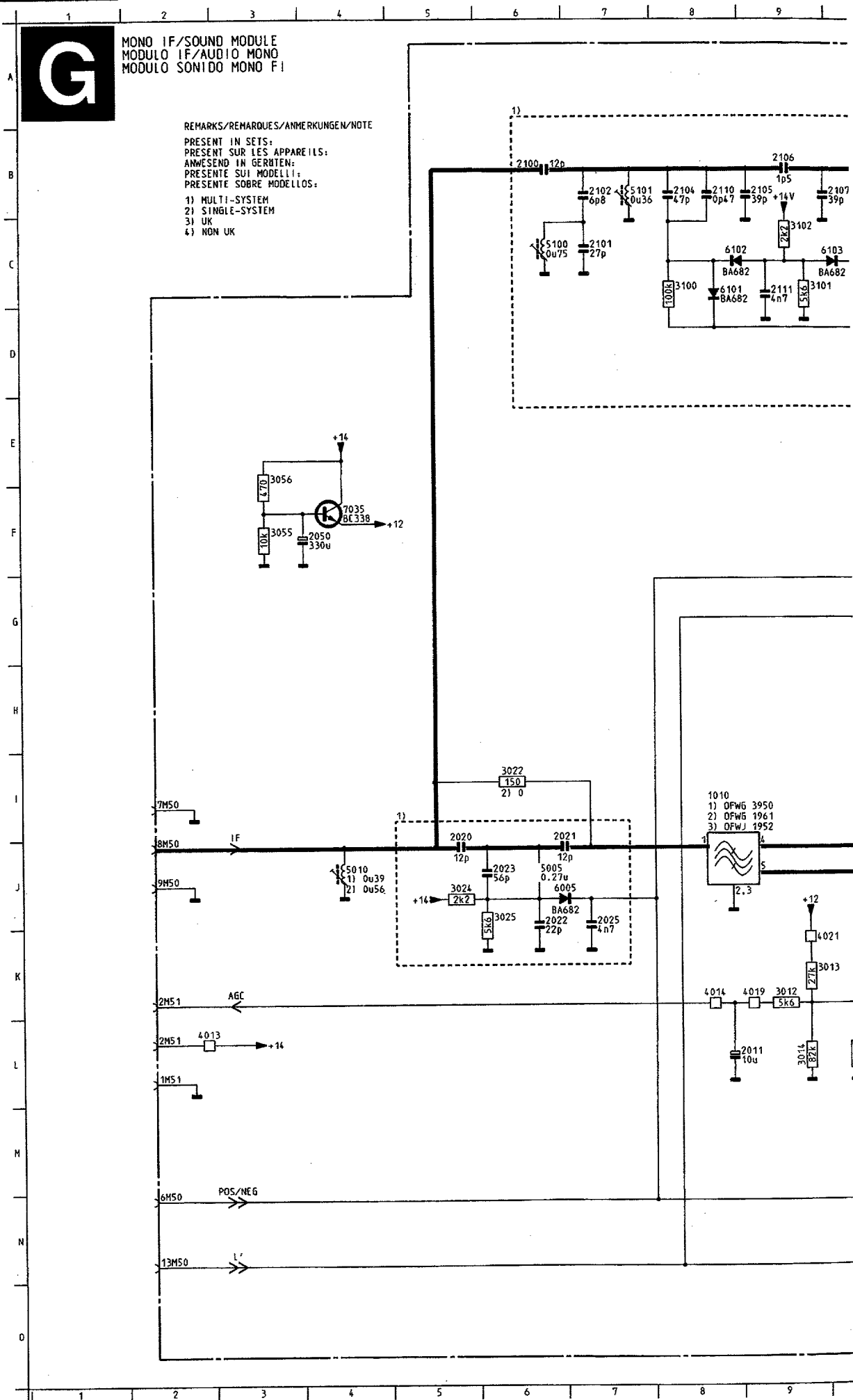
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	1990	D17
	2301	E 6
	2361	I 6
A	2361	D 6
	2371	E 3
	2372	N 3
	2373	I 3
	2391	H 6
	2392	G 5
	2411	C 5
	2412	C 7
B	2421	K 6
	2431	D 6
	2432	B 6
	2433	H14
	2434	I13
	2301	E 5
	2302	E 6
	2303	E 8
C	2304	D 8
	2306	C 9
	2307	B 9
	2308	D 9
	2309	D 9
	2310	C10
D	2311	B 8
	2312	B11
	2313	G11
	2314	D13
	2315	B 9
	2316	B 9
	2331	I 5
	2332	I 6
E	2333	I 8
	2334	H 8
	2335	G 9
	2336	G 9
	2337	F 9
	2338	H 9
	2339	H 9
F	2340	G10
	2341	G 9
	2342	G10
	2343	I11
	2344	D13
	2345	B 5
	2361	M 5
	2362	N 6
G	2363	N 8
	2364	H 8
	2365	L10
	2366	L10
	2367	K10
	2368	H 9
	2369	N 9
H	2370	M10
	2371	L 9
	2372	L10
	2373	L11
	2374	D13
	2375	L 8
	2376	L 8
	2377	L 9
I	2391	G 7
	2392	G 6
	2393	G 5
	2394	G 5
	2395	H 5
	2396	G 8
	2397	G 8
J	2398	G 9
	2411	B 6
	2412	C 6
	2413	B 7
	2414	C 7
	2415	B 7
	2421	K 6
	2422	J 5
K	2423	J 6
	2431	D 4
	2432	A 4
	2433	F14
	2434	F15
	2435	H14
	2436	H14
L	4000	H 5
	4002	J11
	4005	I11
	4007	D13
	4008	D13
	4011	N10
	5401	F14
M	6301	E12
	6331	E12
	6345	B 5
	6411	C 6
	6421	J10
	7301	D10
	7302	D 9
N	7303	E10
	7304	C10
	7305	D10
	7331	H 9
	7332	H10
	7333	H10
	7335	H10
	7345	B 5
O	7361	M 9
	7362	M10
	7363	M10
	7365	M10
	7391	G 6
	7411	B 7
	7421	B 7

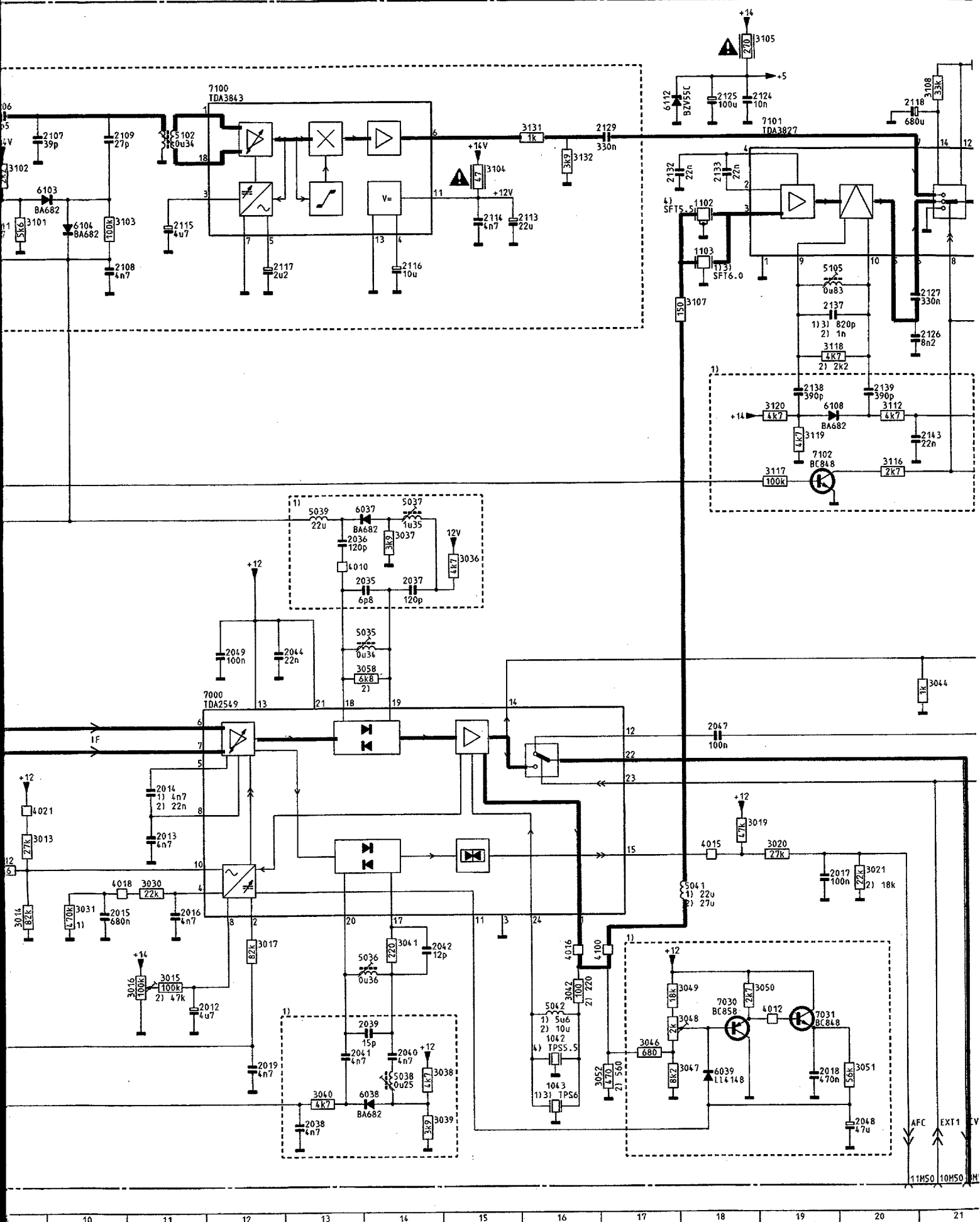


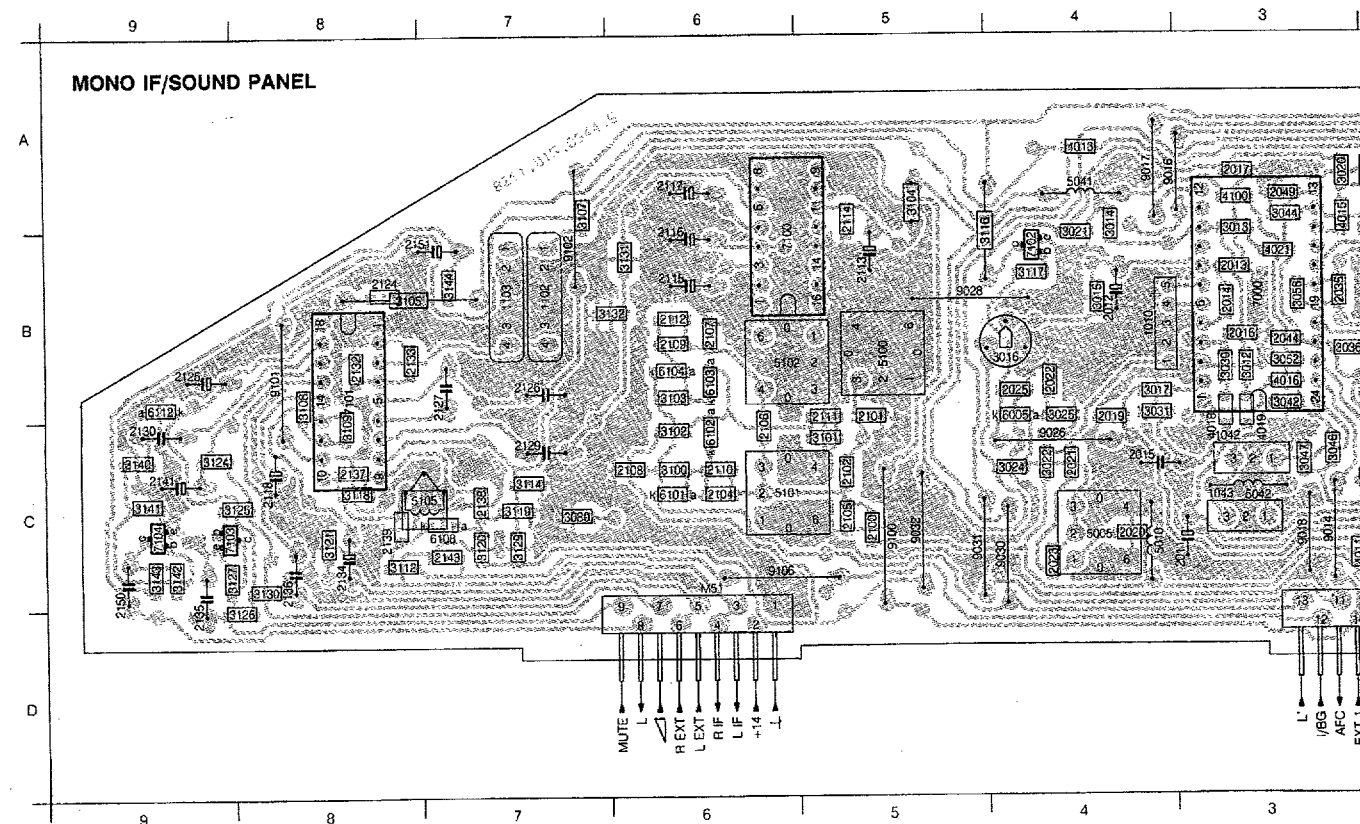
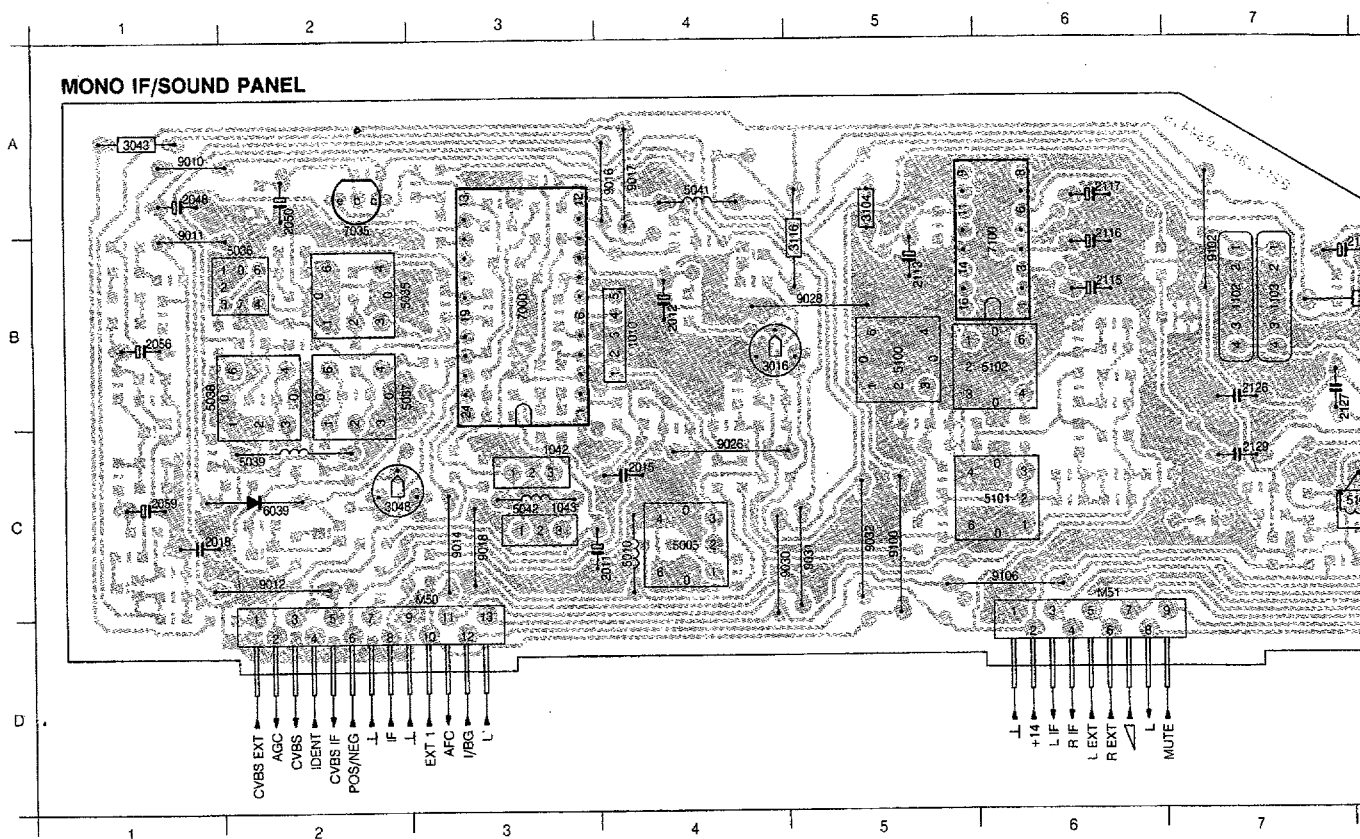
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	2793	D4
	2794	I2C
	2795	I2C
	2796	L2C
	2797	L2C
	2798	M2
	2799	M4
	2800	F5
	2801	A8
	2802	A15
	2803	E1
	2804	C6
	2805	B6
	2810	G15
	2811	A15
	2812	M5
	2813	M1
	2815	J7
	2816	J11
	2817	N8
	2818	N8
	2819	N7
	2820	N8
	2821	N8
	2822	L1
	2823	J8
	2824	N8
	2825	D4
	2826	L1
	2827	J9
	2828	J9
	2829	J9
	2830	M5
	2832	M1
	2833	O3
	2835	M3
	2846	G4
	2847	G5
	2849	J5
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	2796	K1
	2797	A1
	2798	G5
	2799	G5
	2801	E1
	2802	C6
	2803	B6
	2804	L1
	2805	K1
	2806	J1
	2807	J1
	2810	J1
	2812	C12
	2813	G2
	2814	J6
	2815	L5
	2816	J8
	2817	G1
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1290 TXT FLOF MODULE







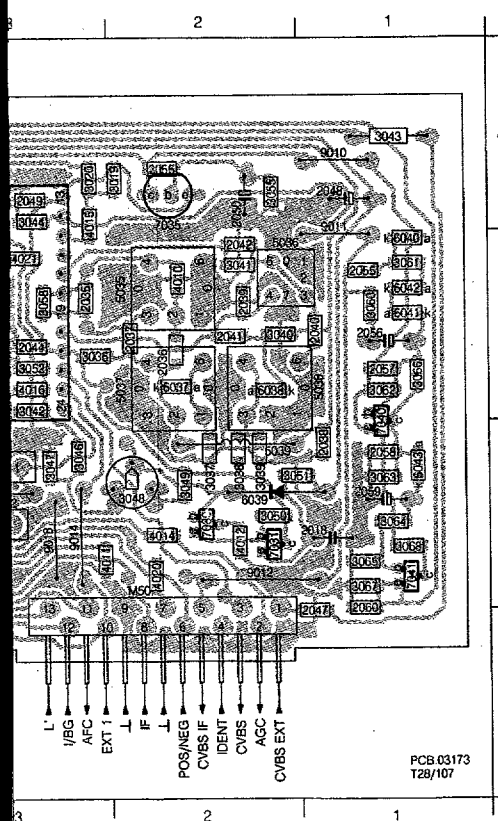
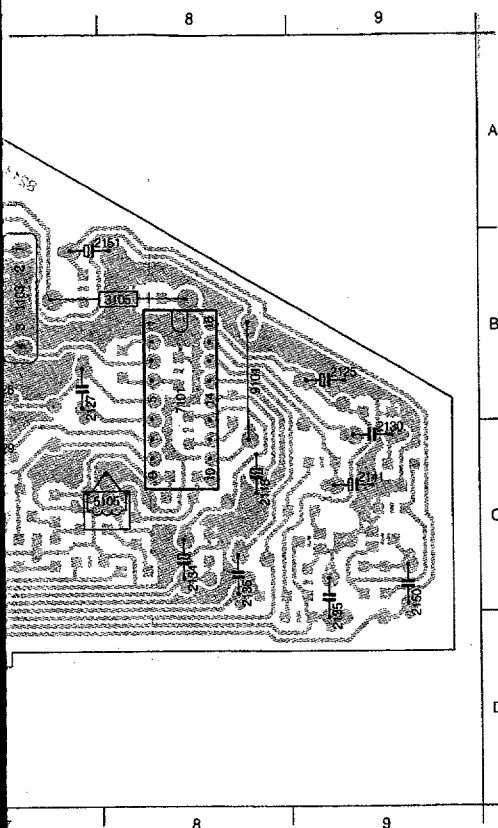


6.33

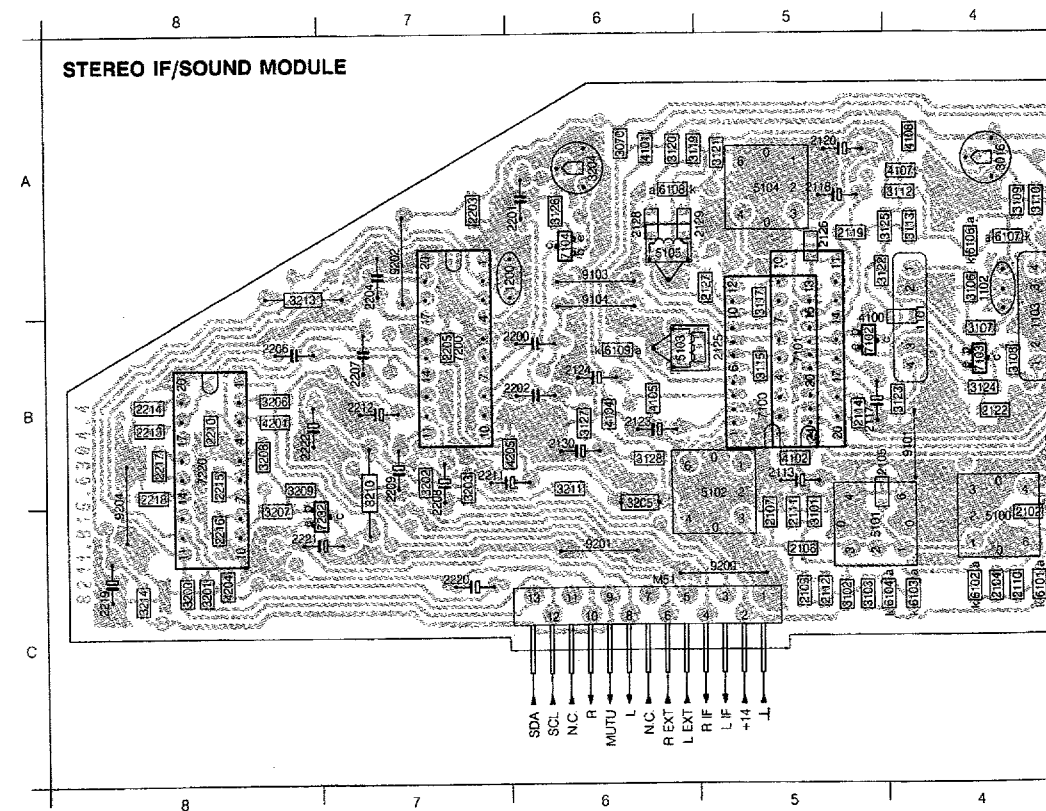
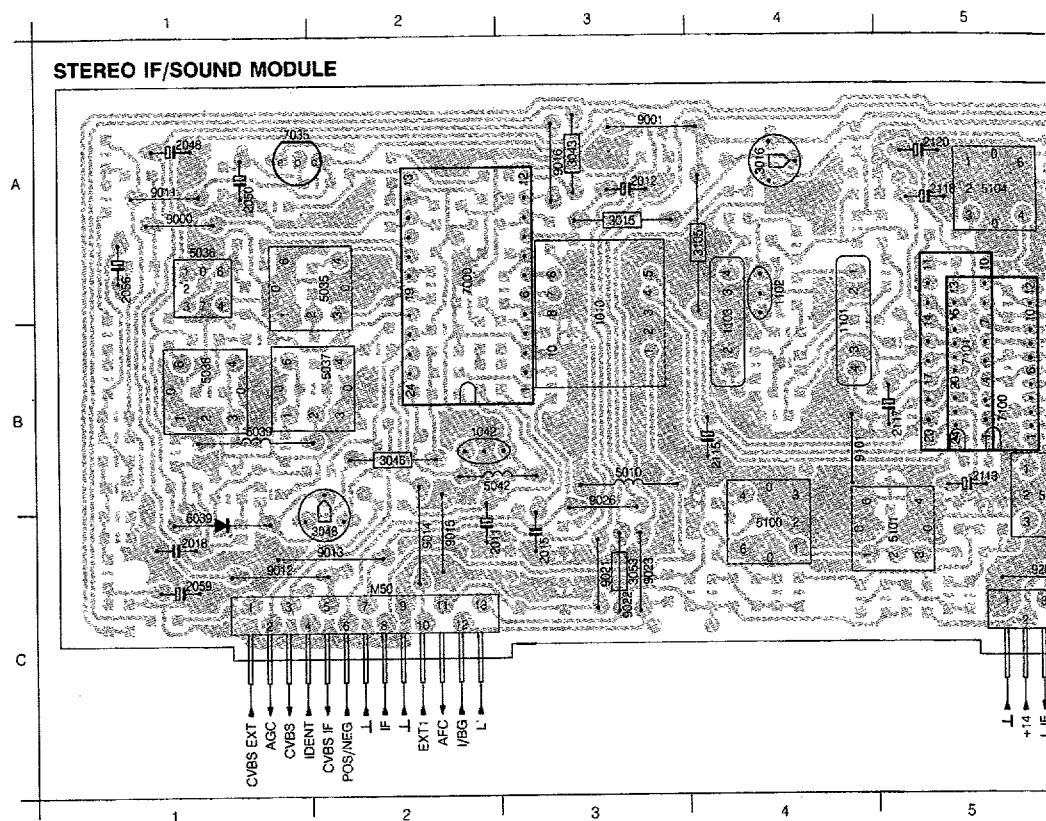
6.34

CHASSIS GR2.1

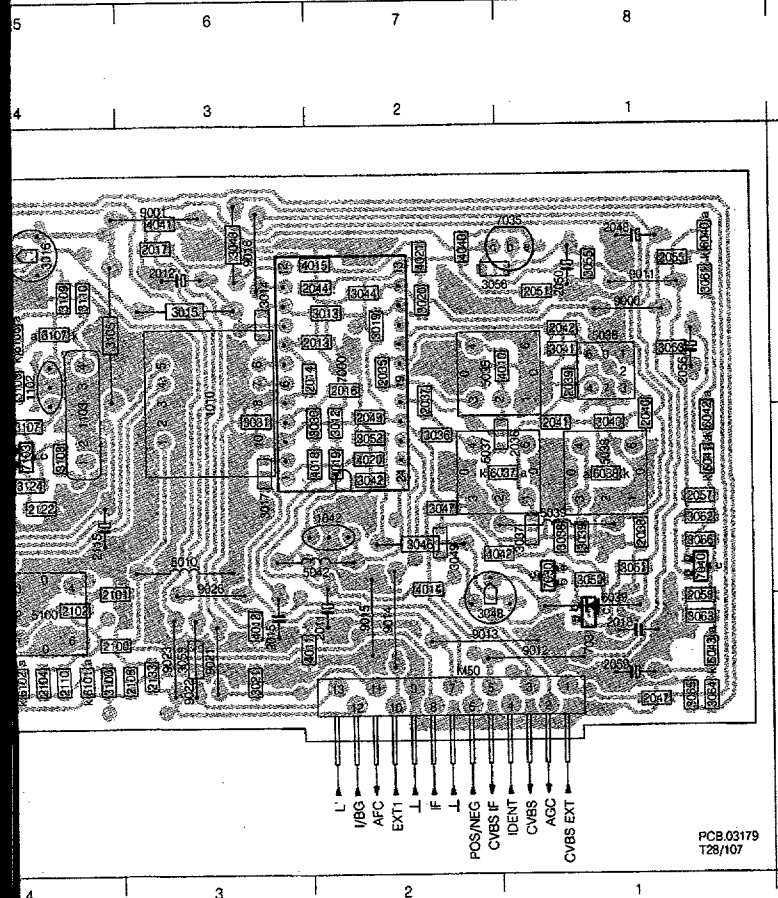
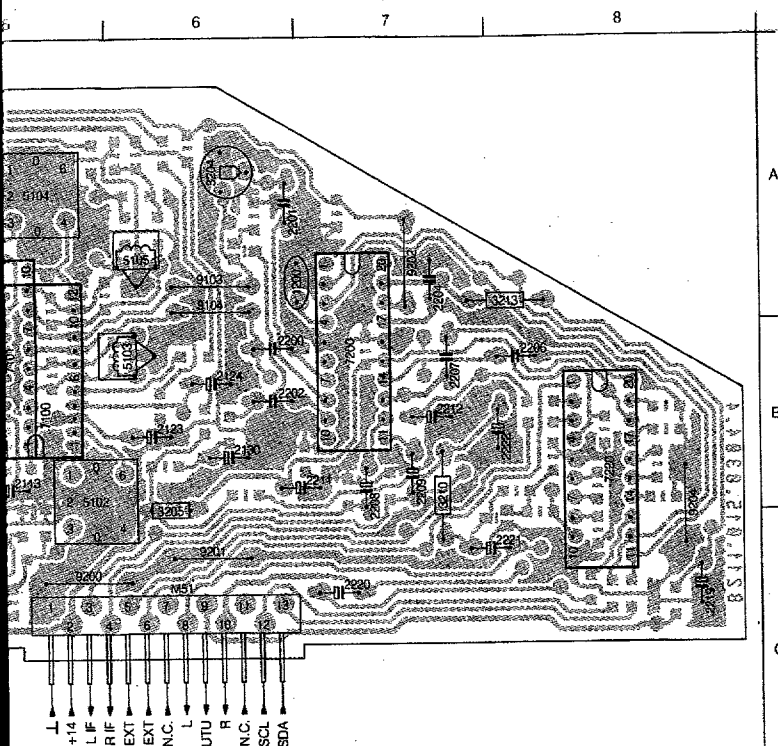
Module FI/son mono



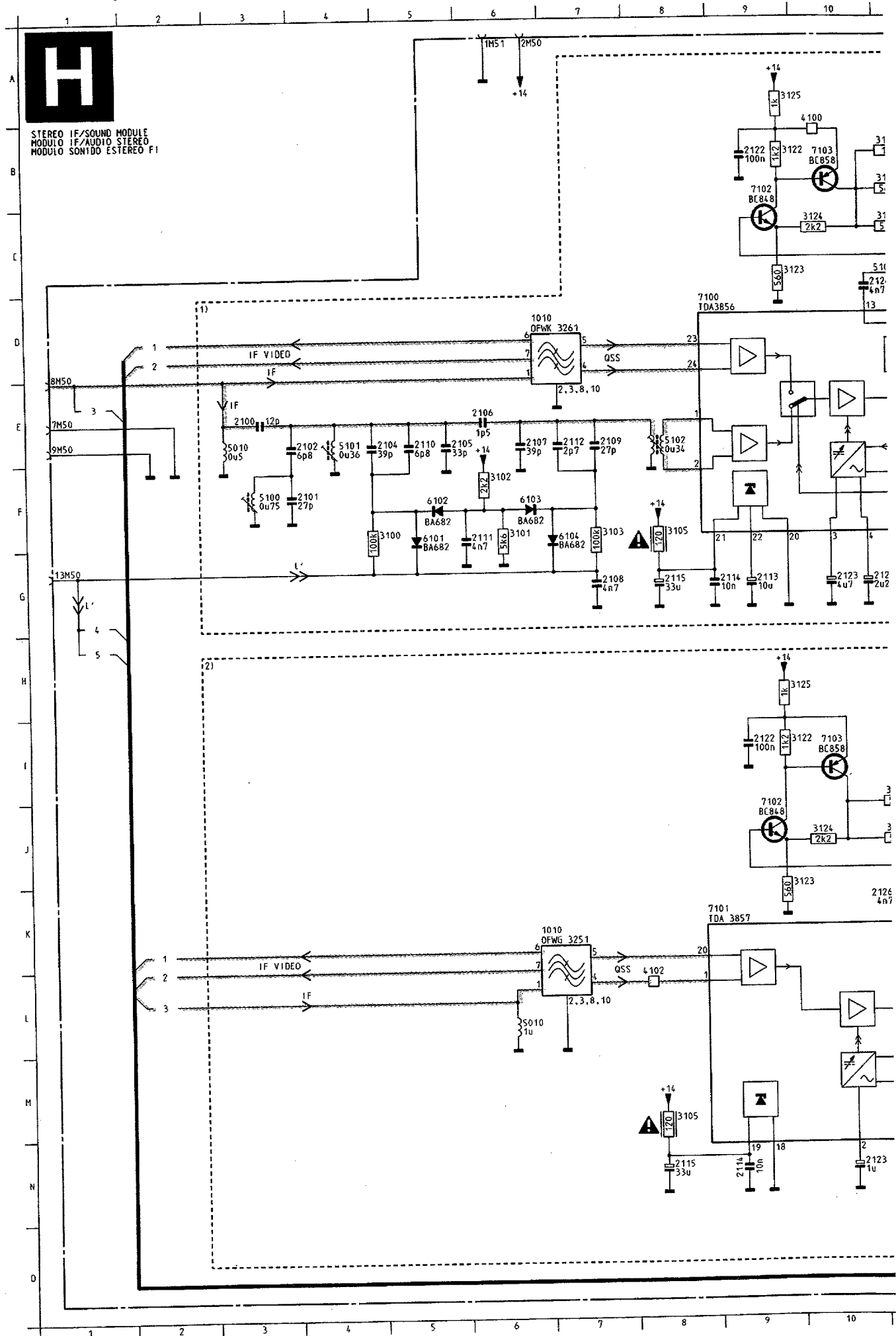
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1042	C3	3114	C7
1043	C3	3116	B5
1102	B7	3117	B4
1103	B7	3118	C8
2011	C4	3119	C7
2012	B4	3120	C7
2013	B3	3121	C8
2014	B3	3124	C9
2015	C4	3125	C8
2016	B3	3126	D8
2017	A3	3127	C9
2018	C1	3129	C7
2019	C4	3130	C8
2020	C4	3131	B7
2021	C4	3132	B6
2022	B4	3140	C9
2023	C4	3141	C9
2025	B4	3142	C9
2035	B3	3143	C9
2036	B2	3144	B7
2037	B2	4010	B2
2038	C1	4011	C3
2039	B2	4012	C2
2040	B2	4013	A4
2041	B2	4014	C2
2042	B2	4015	B3
2044	B3	4016	B3
2047	D1	4018	C3
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2050	A2	4021	B3
2055	B1	4100	A3
2056	B1	5005	C4
2057	B1	5010	C4
2058	C1	5035	B3
2059	C1	5036	B2
2060	D1	5037	B3
2100	C5	5038	B1
2101	C5	5039	C2
2102	C5	5041	A4
2104	C6	5042	C3
2105	C5	5100	B5
2106	C6	5101	C6
2107	B6	5102	B6
2108	C6	5105	C7
2109	B6	6005	C4
2110	C6	6037	B2
2111	C5	6038	B2
2112	B6	6039	C2
2113	B5	6040	B1
2114	B5	6041	B1
2115	B6	6042	B1
2116	B6	6043	C1
2117	A6	6101	C6
2118	C8	6102	C6
2124	B8	6103	B6
2125	B9	6104	B6
2126	B7	6108	C7
2127	B7	6112	B9
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2130	C9	7030	C2
2132	B8	7031	C2
2133	B8	7035	A2
2134	C8	7040	C1
2135	D9	7041	C1
2136	C8	7100	B6
2137	C8	7101	B8
2138	C7	7102	B4
2139	C8	7103	C9
2141	C9	7104	C9
2143	C7	9010	A1
2150	D9	9011	B1
2151	B7	9012	C2
3012	B3	9014	C3
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3015	B4	9018	C3
3016	B4	9026	C4
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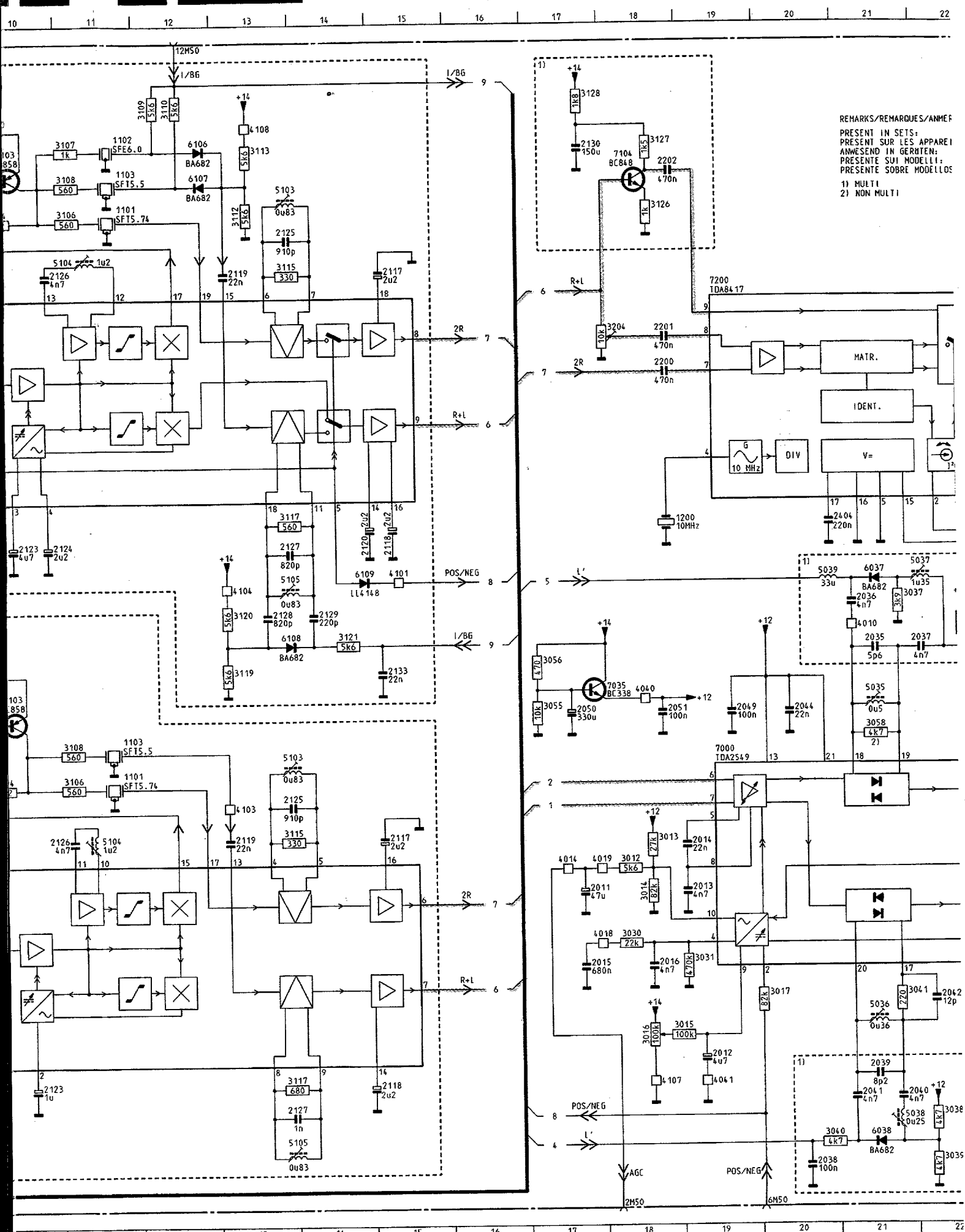


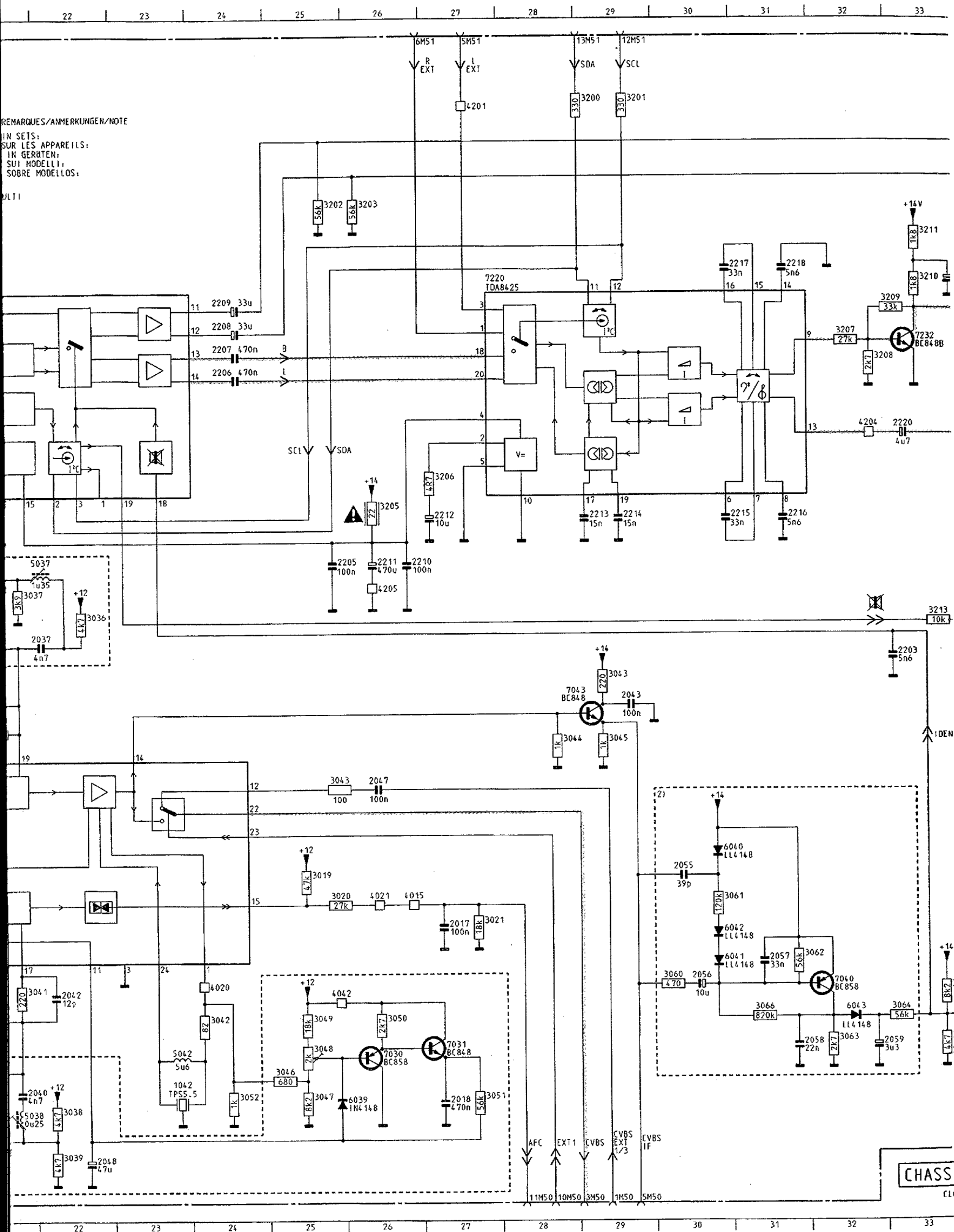
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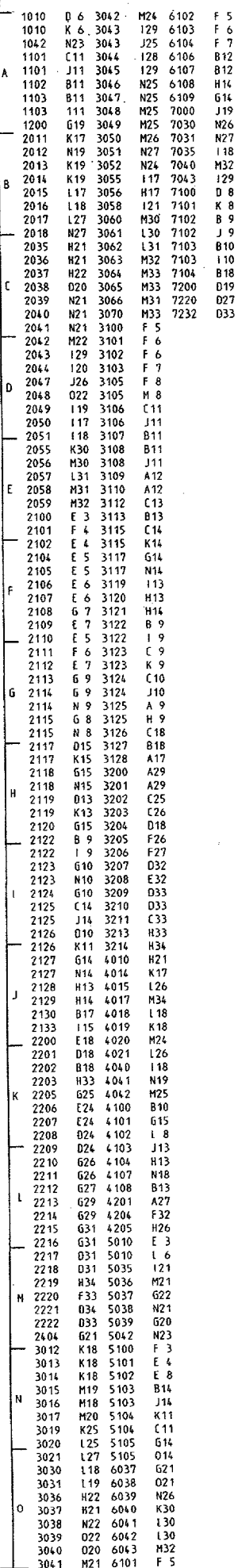


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1103	B4	3105	A4
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2011	C2	3107	B4
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2013	A2	3109	A4
2014	A3	3110	A4
2015	C3	3112	A4
2016	A2	3113	A4
2017	A3	3115	B5
2018	C1	3117	B5
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2036	B1	3120	A6
2037	B2	3121	A5
2038	B1	3122	A5
2039	A1	3123	B4
2040	B1	3124	B4
2041	B1	3125	A5
2042	A1	3126	A6
2044	A2	3127	B6
2047	C1	3128	B6
2048	A1	3200	C8
2049	B2	3201	C8
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2058	C1	3207	C8
2059	C1	3208	B8
2100	C3	3209	B8
2101	B3	3210	B7
2102	C4	3211	B6
2104	C4	3213	A8
2105	B5	3214	C8
2106	C5	4010	A2
2107	C5	4011	C3
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2109	C5	4014	B2
2110	C4	4015	A2
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2112	C5	4019	B2
2113	B5	4020	B2
2114	B5	4021	A2
2115	B4	4040	A2
2117	B5	4041	A3
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2123	B6	4104	B6
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2126	B5	4107	A4
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2127	A6	4201	B8
2128	A6	4204	C8
2129	A6	4205	B7
2130	B6	5010	B3
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2200	B6	5036	A1
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2202	B6	5038	B1
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2206	B8	5101	C5
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2208	C7	5103	B6
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2214	B8	6040	A1
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2219	C8	6102	C4
2220	C7	6103	C4
2221	C8	6104	C5
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3013	A2	6108	A6
3014	A3	6109	B6
3015	A3	7000	A2
3016	A4	7030	B1
3017	B3	7031	C1
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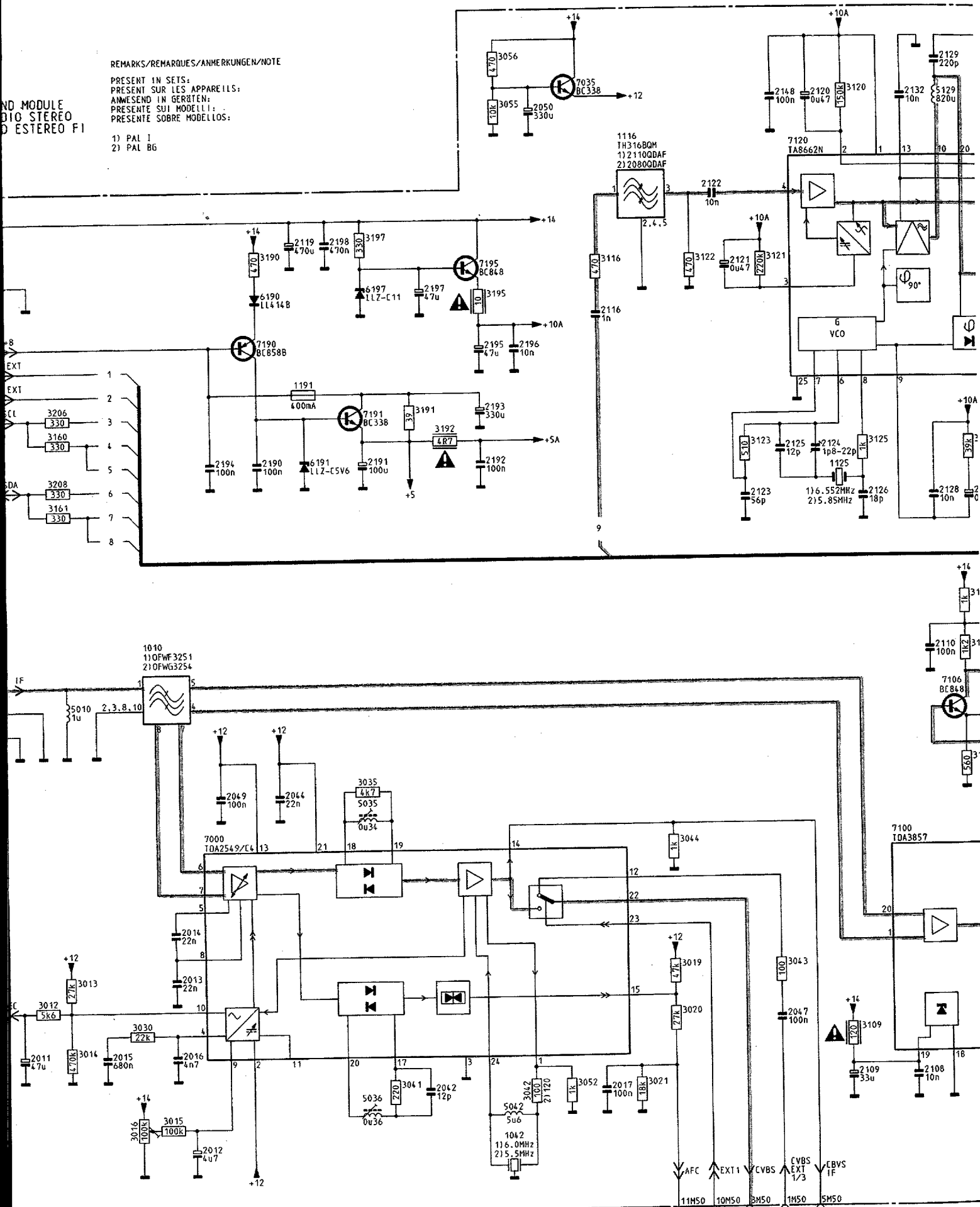


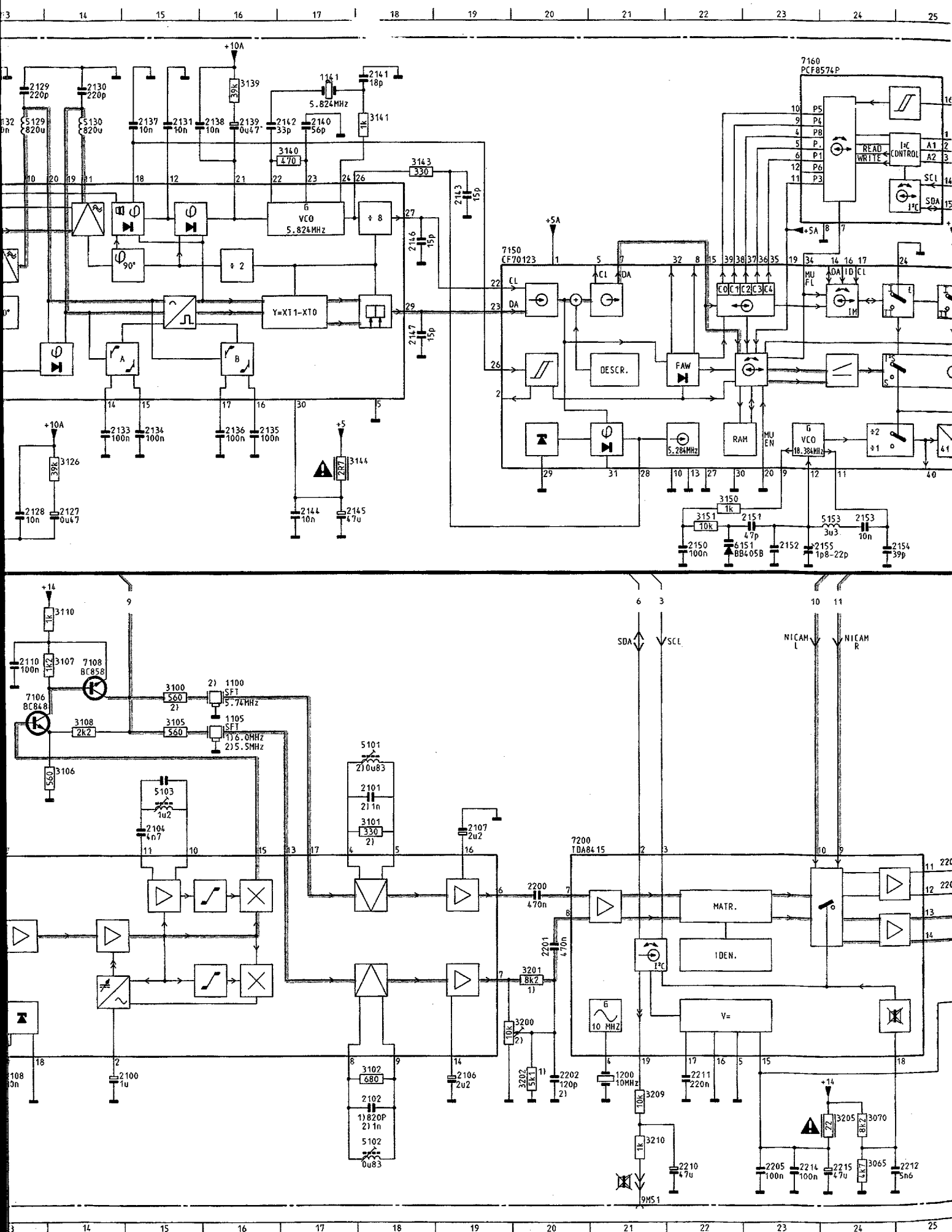
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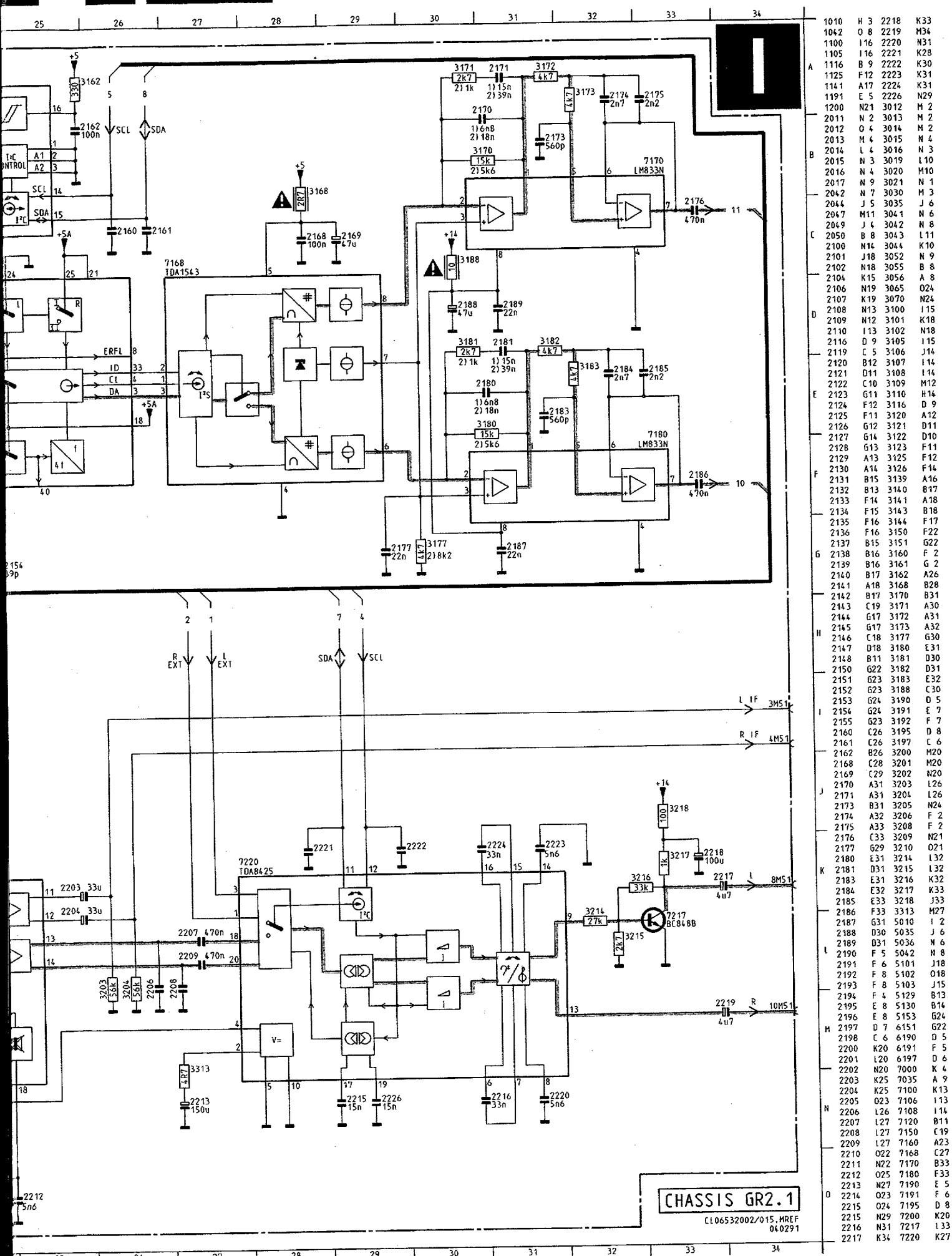
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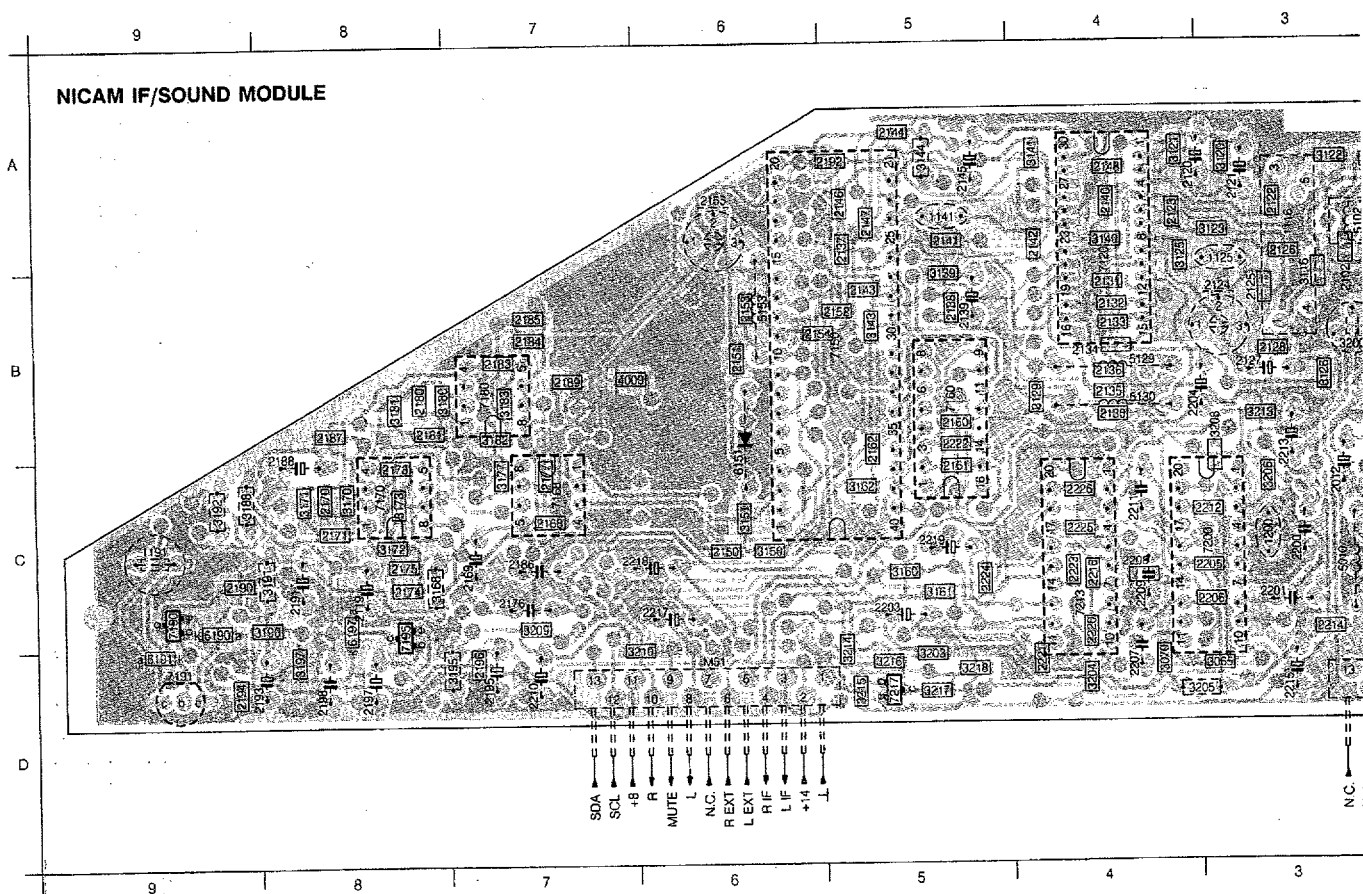
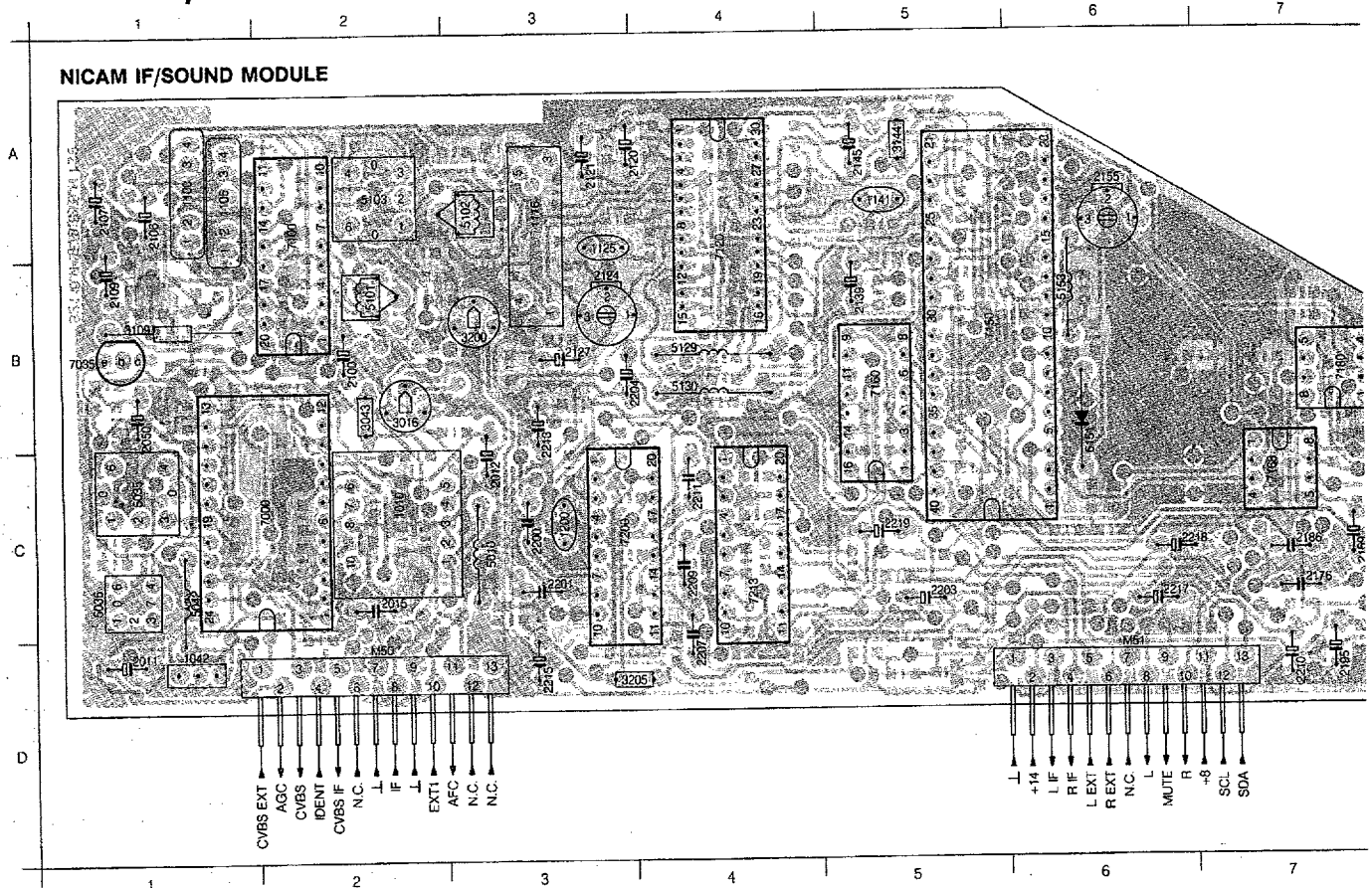
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2) PAL BG







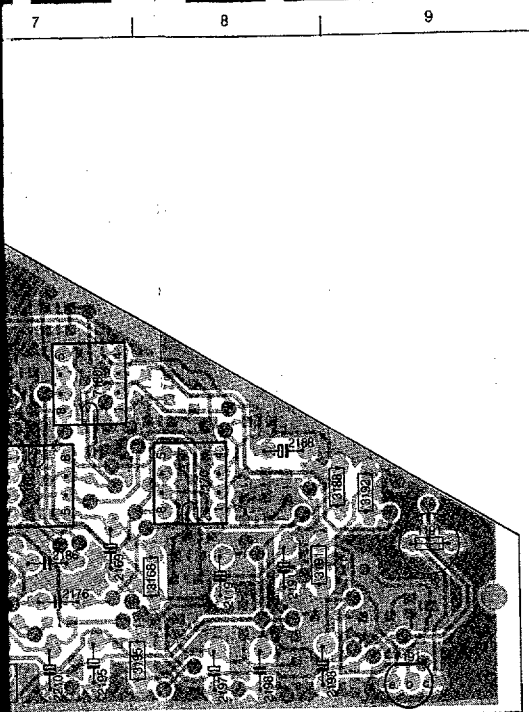


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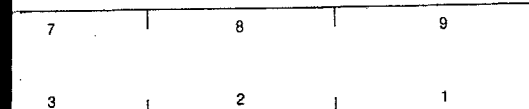
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B

C

D

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2101 B2	3110 B1
2102 B3	3116 B3
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2108 B2	3123 A3
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2110 B1	3126 B3
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2122 A3	3144 A5
2123 A4	3150 C6
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2126 A3	3161 C5
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2129 B4	3170 C8
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2132 B4	3173 C8
2133 B4	3177 C7
2134 B4	3180 B8
2135 B4	3181 B8
2136 B4	3182 B7
2137 A5	3183 B7
2138 B5	3188 C9
2139 B5	3190 C8
2140 A4	3191 C8
2141 A5	3192 C9
2142 A4	3195 D7
2143 B5	3197 D8
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2145 A5	3201 B2
2146 A5	3202 B2
2147 A5	3203 D5
2148 A4	3204 D4
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2151 B6	3206 C3
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2153 B6	3209 C7
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2181 B8	5129 B4
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2185 B7	6151 C6
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A

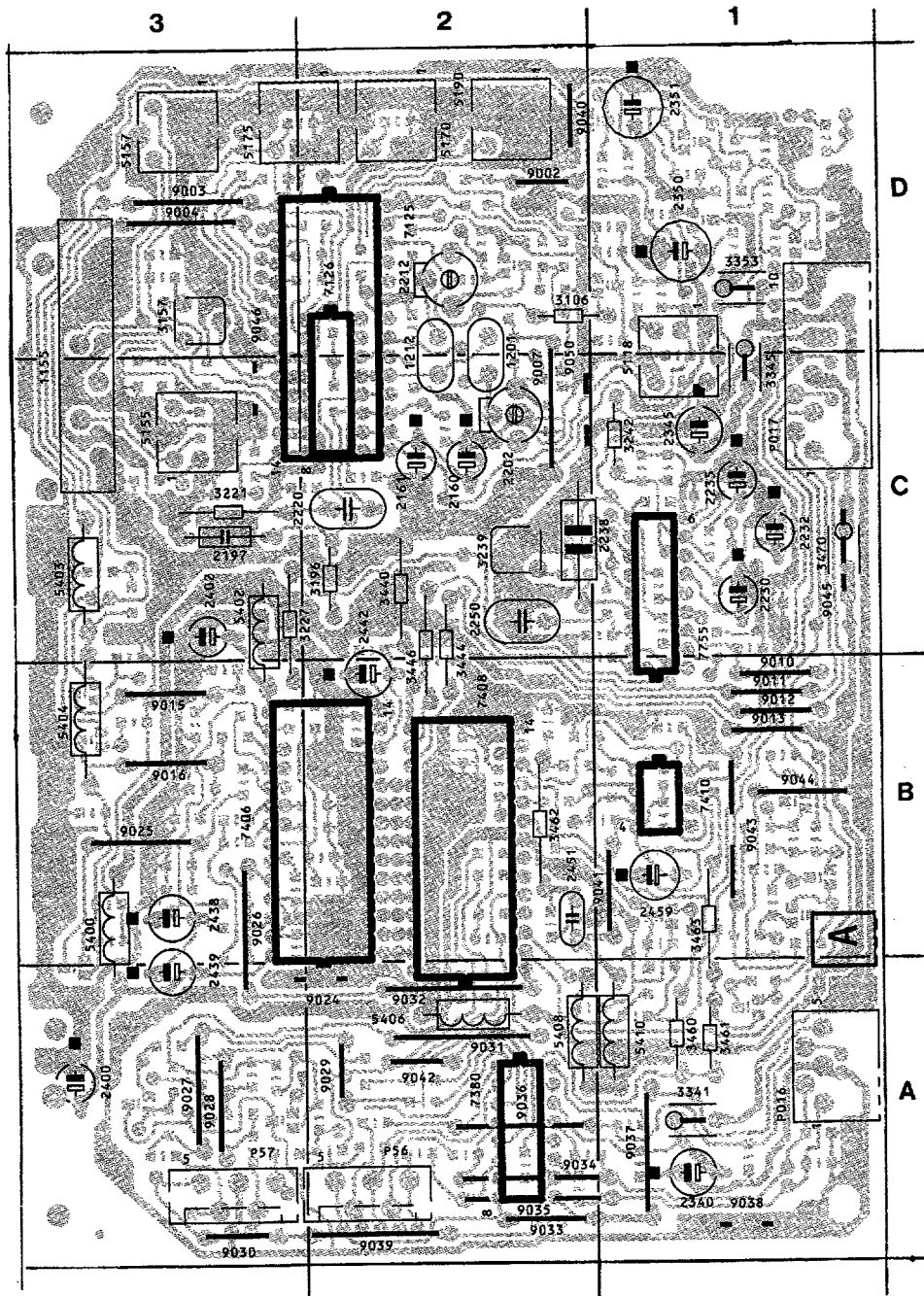
B

C

D

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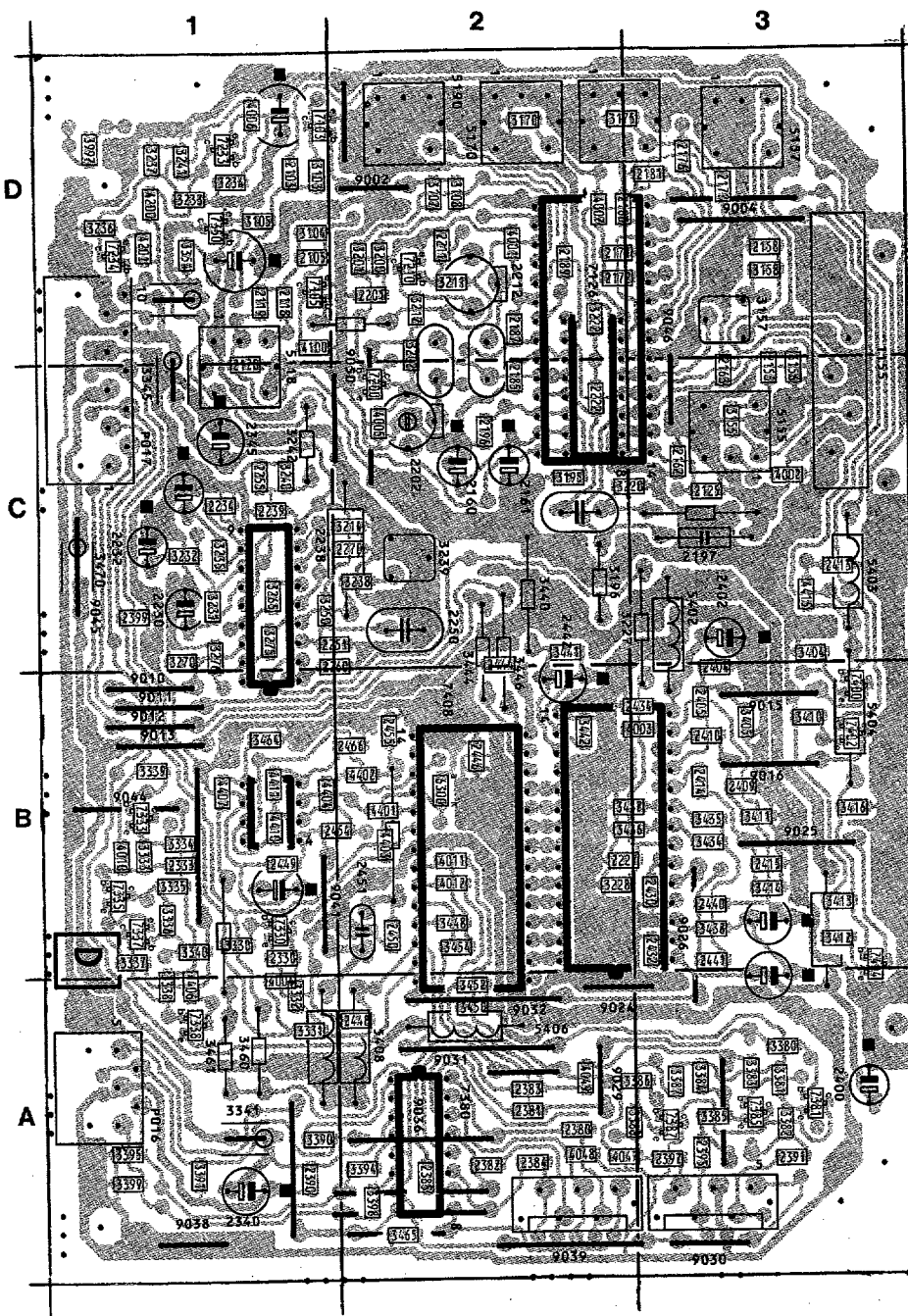
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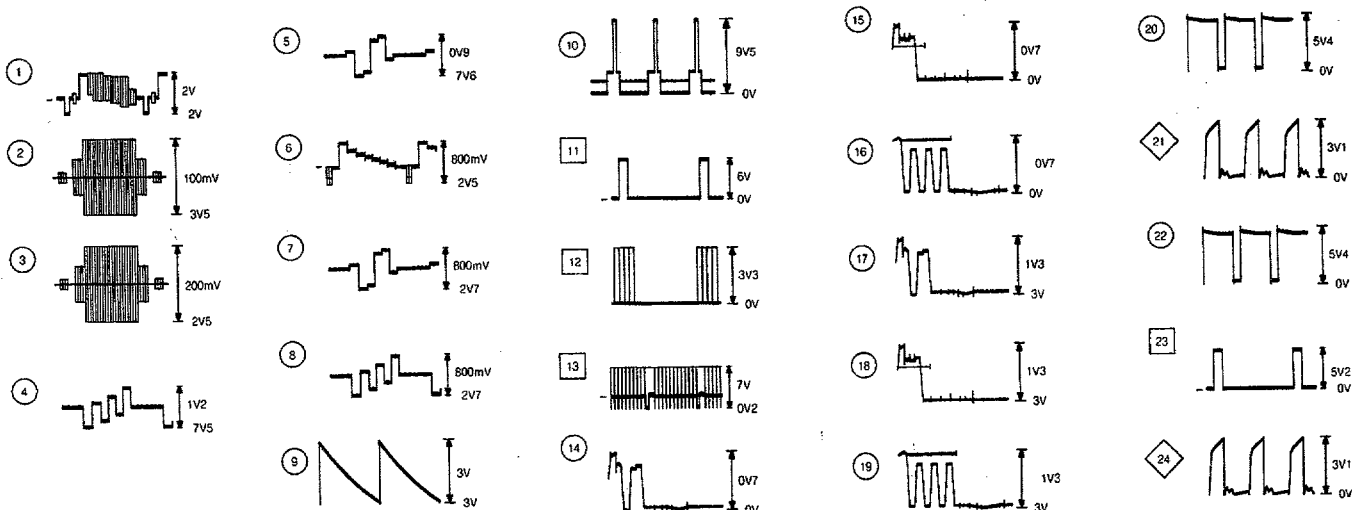
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2220 C2	3108 D2	3394 A2	5175 D2	9C
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2399 C1	3241 D1	3464 B1	7404 B3	9C
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D1
D2
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B2
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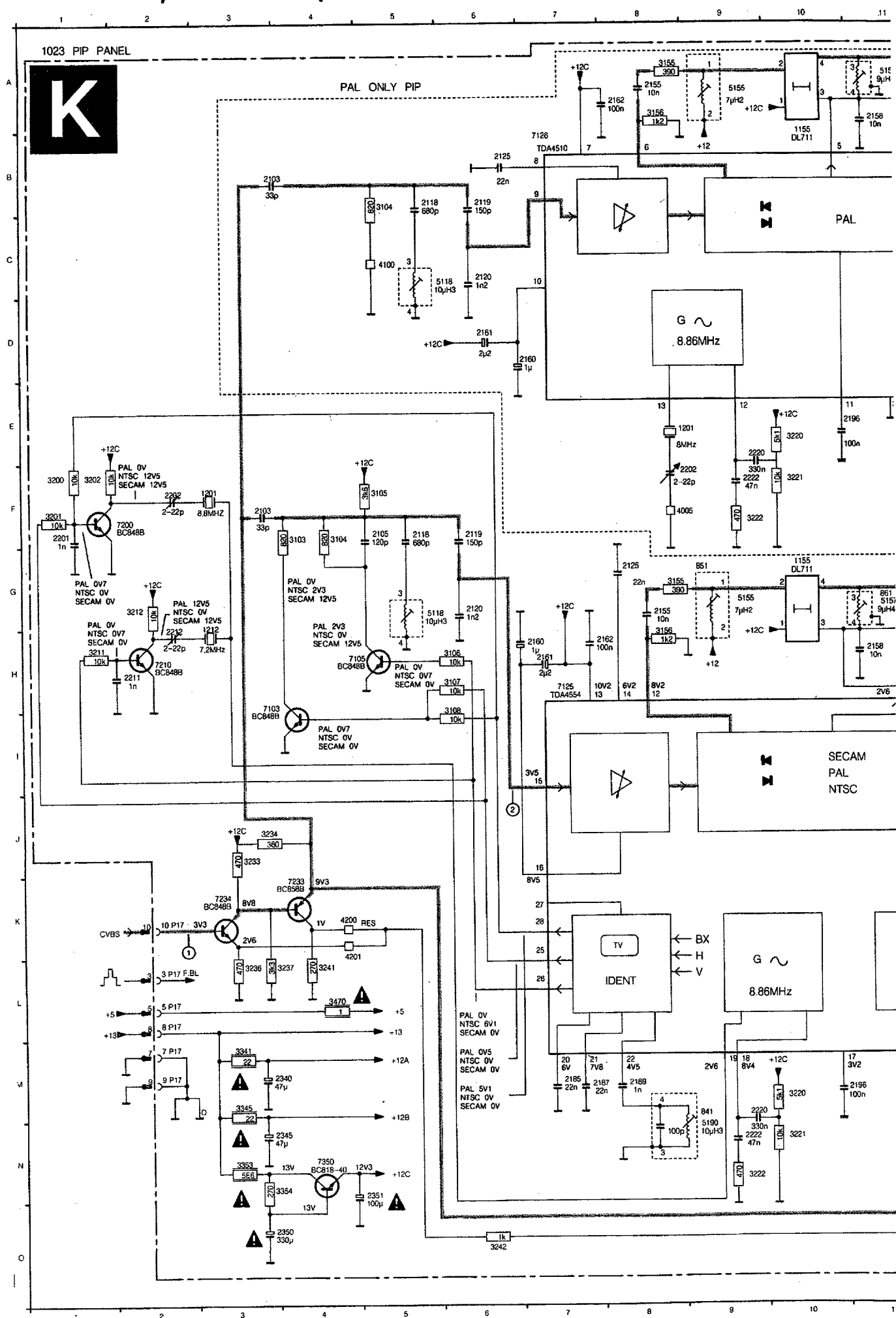
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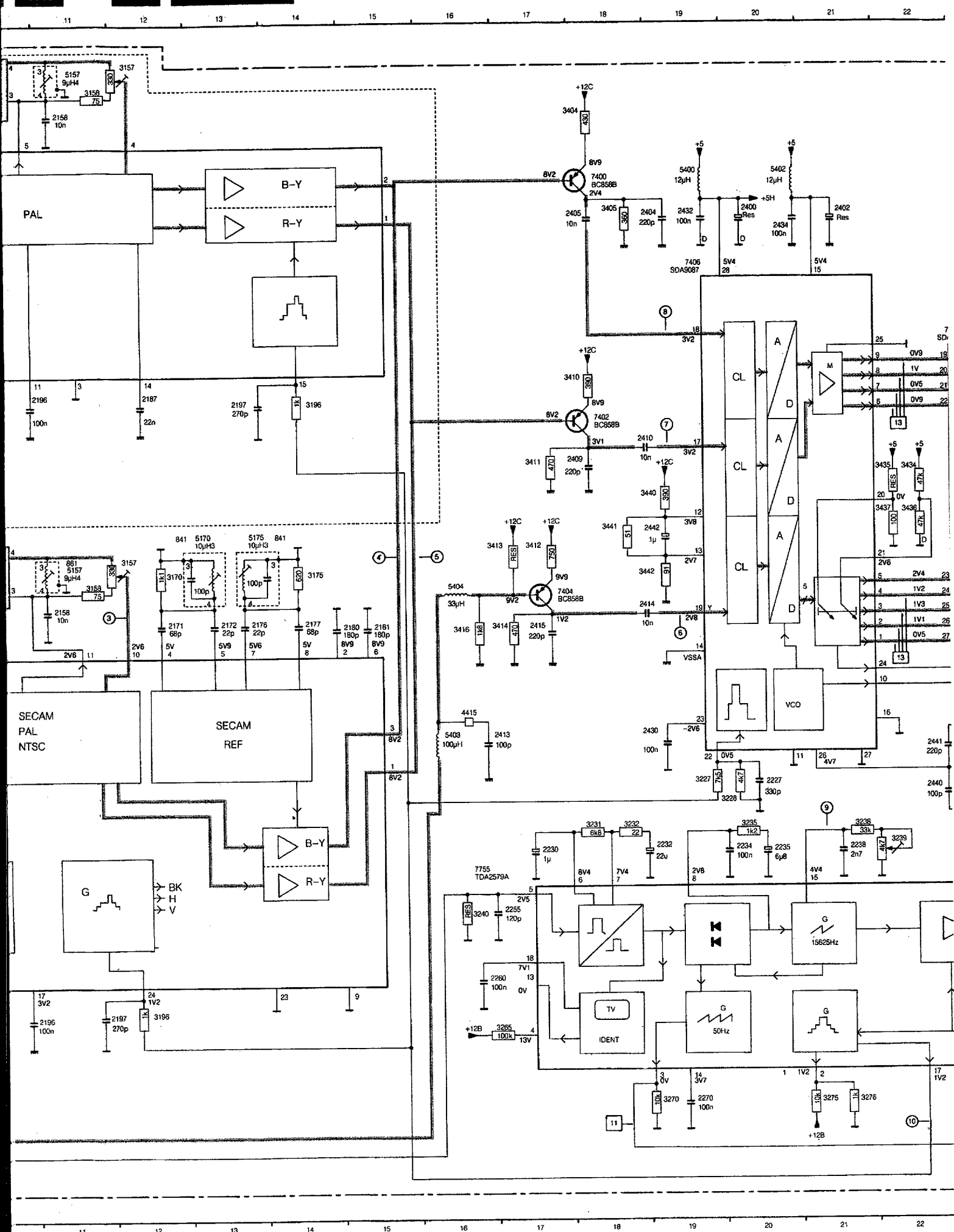


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2119 D1	2415 B3	3332 A1	4006 D1	9010 B1
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2171 D2	2444 C2	3341 A1	4200 D1	9027 A3
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2383 A2	3234 D1	3450 A2	7380 A2	
2384 A2	3235 C1	3452 A2	7381 A3	
2385 A2	3236 D1	3454 B2	7385 A3	
2390 A1	3237 D1	3460 A1	7387 A3	
2391 A3	3238 C2	3461 A1	7400 B3	
2395 A3	3239 C2	3462 B2	7402 B3	
2397 A3	3240 C1	3463 B1	7404 B3	
2399 C1	3241 D1	3464 B1	7406 B2	
2400 A3	3242 C1	3465 A2	7408 A2	
2402 C3	3250 C1	3470 C1		



CHASSIS GR2.1	6.49
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Setting conditions.

All electrical settings should be made under the following conditions:

- supply voltage: $220 - 240 \text{ V} \pm 10\%$; $50 \text{ Hz} \pm 5\%$
- warming-up time ≈ 10 minutes
- the voltages and oscillograms have been measured with regard to tuner earth.
- measuring probe: $R_i > 10 \text{ M}\Omega$; $C_i < 2.5 \text{ pF}$.

1. Settings on the carrier board

1.1 +148V/+95V supply voltage

Connect a voltmeter over C2631.

Using R3635, set the supply voltage to $+148 \text{ V} \pm 0.5 \text{ V}$ for 25" and 28" units or to $95 \text{ V} \pm 0.5 \text{ V}$ for 21" units.

1.2 Focusing

This is set using the focusing potentiometer (on the top of the line output transformer).

1.3 Vg2 setting

Connect a pattern generator and supply a blanking frame signal (black picture). Switch the unit to the service default mode (see section 9).

Connect an oscilloscope to the emitters of transistors 7304 and 7364 on the picture tube module. Set the oscilloscope to frame frequency. Measure the DC voltage level of the measuring pulses (see Fig. 7.2). Using the Vg2 potentiometer on the line output transformer, set the measuring pulse with the lowest DC voltage level to:

- * $+153 \text{ V} \pm 5 \text{ V}$ for 25" and 28" blackline units (protected high-voltage cable)
- * $+130 \text{ V} \pm 5 \text{ V}$ for 28" non-blackline units
- * $+118 \text{ V} \pm 5 \text{ V}$ for 25" non-blackline units
- * $+120 \text{ V} \pm 5 \text{ V}$ for 21" units.

1.4 Horizontal synchronization

Connect pin 5-IC7470 to pin 9-IC7470.

Supply an aerial signal and tune the set.

Adjust potentiometer 3457 until the picture is straight.

Remove the interconnection.

1.5 Horizontal centring

Set using potentiometer 3461.

1.6 Picture width

Set using potentiometer 3525.

1.7 Vertical centring

Set using potentiometer 3516.

1.8 Picture height

Set using potentiometer 3504.

1.9 East/West correction

Set using potentiometer 3521. This setting is only for 25" and 28" units.

1.10 Chroma bandpass filter

a. Setting for PAL/SECAM

Connect a signal generator to pin 20 of the euroconnector frequency to 4.286 MHz to EXT1. Connect pin 27- (+12V). Connect an oscilloscope to Set 5301 to maximum amplitude. Remove the interconnection.

b. Setting for PAL sets (TDA4510)

Connect a signal generator to pin 20 of the euroconnector frequency to 4.43 MHz . Connect an oscilloscope to Set 5301 to maximum amplitude.

1.11 Chroma auxiliary oscillator

Connect a pattern generator to colour bar pattern. Connect (TDA4510) or pin 17-IC7306. Set 2313 so that the colour is practically stopped. Remove the interconnection.

1.12 SECAM demodulators (TDA4650)

Connect a pattern generator to black pattern. Connect at pin 1-IC7306. Set 5304 to minimum amplitude. Connect the oscilloscope to minimum amplitude.

1.13 White balance

Connect a pattern generator to picture. Switch on the service menu and select "WHITE BALANCE". Set the values of "GREEN" and "RED" required white balance is.

1.14 Peak white limit

Switch on the service menu and select "WHITE BALANCE". Set "WHITE LIMIT" to the following values:
 - 23 for blackline units
 - 53 for non-blackline units
 - 53 for 21" units.

1.15 Cut-off points of the picture

Connect a pattern generator to picture. Switch on the service menu and select "CUT OFF". Switch on "D" and "RED", "GREEN" and "BLUE" respective guns give no picture.

1.16 Options

Switch on the service menu and select "OPTION 2".

Switch the options "ON" or "OFF" whether the following options:

- "PIP" on a PIP set
- "2ND SCART" on a set
- "TELETEXT" on a television
- "AUTO STORE" for the installation menu
- "SVHS" for the Y/C connection
- "MULTI SYSTEM" for a television
- "HYPERBAND" for a television to the frequency band
- "UHF ONLY" for a television to the UHF band
- "NICAM TWIN" for stereo receive NICAM sound

al settings

1.10 Chroma bandpass filter

a. Setting for PAL/SECAM sets (TDA4650)

Connect a signal generator (e.g. PM 5326) to pin 20 of the euroconnector (EXT1) and set its frequency to 4.286 MHz/0.2 Vpp. Switch the unit to EXT1. Connect pin 27-IC7306 to pin 13-IC7306 (+12V). Connect an oscilloscope to pin 15-IC7306. Set 5301 to maximum amplitude. Remove the interconnection.

b. Setting for PAL sets (TDA4510)

Connect a signal generator (e.g. PM 5326) to pin 20 of the euroconnector (EXT1) and set its frequency to 4.43 MHz. Connect the unit to EXT1. Connect an oscilloscope to pin 9-IC7305. Set 5301 to maximum amplitude.

1.11 Chroma auxiliary oscillator

Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 11-IC7305 (TDA4510) or pin 17-IC7306 (TDA4650) to earth. Set 2313 so that the colour on the screen has practically stopped. Remove the interconnection.

1.12 SECAM demodulators for PAL/SECAM sets (TDA4650)

Connect a pattern generator and supply a SECAM black pattern. Connect an oscilloscope to pin 1-IC7306. Set 5304 to minimum amplitude. Connect the oscilloscope to pin 3-IC7306. Set 3312 to minimum amplitude.

1.13 White balance

Connect a pattern generator and select a white picture. Switch on the service menu (see section 9) and select "WHITE BALANCE". Set the values of "GREEN" and "BLUE" so that the required white balance is achieved.

1.14 Peak white limit

Switch on the service menu (see section 9) and select "WHITE BALANCE". Set "WHITE LIMIT" to the value:

- 23 for blackline units
- 53 for non-blackline units
- 53 for 21" units.

1.15 Cut-off points of the picture tube

Connect a pattern generator and select a black picture. Switch on the service menu and select "CUT OFF". Switch on "DISABLE" ("ON"). Set "RED", "GREEN" and "BLUE" until the respective guns give no more light on the screen.

1.16 Options

Switch on the service menu and select "OPTION 1" or "OPTION 2". Switch the options "ON" and "OFF" according to whether the following options are present:

- "PIP" on a PIP set
- "2ND SCART" on a set with two euroconnectors
- "TELETEXT" on a teletext set
- "AUTO STORE" for the automatic tuning facility in the installation menu
- "SVHS" for the Y/C connector in mono sets
- "MULTI SYSTEM" for multisystem sets
- "HYPERBAND" for a tuner which can be tuned to the frequency band of 300 MHz to 450 MHz
- "UHF ONLY" for a tuner which can only be tuned to the UHF band
- "NICAM TWIN" for stereo sets which can also receive NICAM sound.

2. Settings on the IF/sound module

2.1 AFC and the picture demodulator

a. Setting for multisystem units

Connect a signal generator (e.g. PM 5326) via a capacitor of 5p6 to pin 17 of the tuner and set its frequency to 33.4 MHz for mono sets or to 33.95 MHz for stereo sets. Modulate (AM) the signal with, for example, 1kHz.

Tune mono sets to VHF1 band at a tuning voltage of approximately 5V at pin 11 of the tuner. The "search" (selection B of the manual installation menu) can be stopped by selecting menu selection C "programme".

Set stereo sets to a tuning frequency of 45 MHz. Select system France.

AFC: using 5036 set the voltage at pin 15-IC7000 to 6V (DC).

Picture demodulator: set 5035 to a maximum (undistorted) signal at pin 22-IC7000.

Then set the frequency of the signal generator to 38.9 MHz. Select system Europe on the set.

AFC: using 5038 set the voltage at pin 15-IC7000 to 6V (DC).

Picture demodulator: set 5037 to a maximum (undistorted) signal at pin 22-IC7000.

Adjacent channel suppression (mono sets):

Then set the frequency of the signal generator to 33.4 MHz. Place pin 9-IC7000 at a fixed voltage of +1V using a laboratory supply. Tune the set to the UHF band and select system France.

Set 5005 to a minimum signal at pin 22-IC7000.

b. Setting for single-system units

Connect a signal generator (e.g. PM 5326) via a capacitor of 5p6 to pin 17 of the tuner and set its frequency to 38.9 MHz. Modulate (AM) the signal with, for example, 1kHz.

AFC: using 5036 set the voltage at pin 15-IC7000 to 6V (DC).

Picture demodulator: set 5035 to a maximum (undistorted) signal at pin 22-IC7000.

2.2 RF-AGC

If the picture from a strong local transmitter is distorted, adjust 3016 until the picture is not distorted.

2.3 MF-AGC (Multisystem units)

Connect a pattern generator and supply a SECAM-L colour bar signal. Connect an oscilloscope to pin 22-IC7000. Set the amplitude of the video signal with 3048 to 1.7 Vpp for stereo units or to 1.8 Vpp for mono units.

2.4 AM-IF sound filter (Multisystem units)

Connect a signal generator (e.g. PM 5326) via a capacitor of 5p6 to pin 17 of the tuner and set its frequency to 30.9 MHz. Modulate (AM) the signal with 1kHz, for example. Tune the unit to UHF band and select system France. Connect an oscilloscope to pin 9-IC7100 and set 5100 to minimum amplitude.

Place pin 3-IC7100 on a fixed voltage of +2V using a laboratory supply.

Set the frequency of the generator to 32.4 MHz and set 5101 and 5102 to maximum amplitude.

IF/sound module

IF demodulator system units

Connect a signal generator (e.g. PM 5326) via a capacitor of 5p6 to pin 17 of the tuner and set its frequency to 38.9 MHz. Modulate (AM) the signal with 1kHz, for example. Connect an oscilloscope to pin 17-IC7100 (TDA3856) or pin 16-IC7101 (TDA3856) and set 5104 to minimum amplitude.

Set the VHF1 band at a tuning voltage of 10V at pin 11 of the tuner. The picture is set by selecting menu selection 10.

Set the tuning frequency of 45 MHz. Set the voltage at pin 15-IC7000 to 10V.

For stereo: set 5035 to a maximum amplitude at pin 22-IC7000. Frequency of the signal generator to 5.5 MHz. Set system Europe on the set. Set the voltage at pin 15-IC7000 to 10V.

For stereo: set 5037 to a maximum amplitude at pin 22-IC7000. **Suppression** (mono sets): Frequency of the signal generator to 5.5 MHz. Set pin 9-IC7000 at a fixed voltage of 10V. Tune the set to the picture system France. Maximum signal at pin 22-IC7000.

IF demodulator system units

Connect a signal generator (e.g. PM 5326) via a capacitor of 5p6 to pin 17 of the tuner and set its frequency to 38.9 MHz. Modulate (AM) the signal with 1kHz. Set the voltage at pin 15-IC7000 to 10V.

For stereo: set 5035 to a maximum amplitude at pin 22-IC7000.

Set a strong local transmitter is 316 until the picture is not visible.

For stereo units) Connect a signal generator and supply a PAL colour bar signal. Connect an oscilloscope to pin 22-IC7000. Set the amplitude of the signal to 1.7 Vpp for stereo and 1.0 Vpp for mono units.

IF demodulator (Multisystem units)

Connect a signal generator (e.g. PM 5326) via a capacitor of 5p6 to pin 17 of the tuner and set its frequency to 38.9 MHz. Modulate (AM) the signal with 1kHz. Tune the unit to UHF band 10. France. Connect an oscilloscope to pin 16-IC7101 and set 5100 to minimum amplitude.

Set the voltage on a fixed voltage of +2V using a signal generator. Set the frequency of the generator to 32.4 MHz and set 5102 to maximum amplitude.

2.5 IF sound demodulator (stereo and NICAM units) Connect a signal generator (e.g. PM 5326) via a capacitor of 5p6 to pin 17 of the tuner and set its frequency to 38.9 MHz. Modulate (AM) the signal with 1kHz, for example. Connect an oscilloscope to pin 17-IC7100 (TDA3856) or pin 16-IC7101 (TDA3856) and set 5104 to minimum amplitude.

2.6 5.5 MHz or 6.0 MHz FM sound demodulator Connect a pattern generator and supply a PAL signal with FM mono sound. Set 5105 (mono and stereo units) or 5102 (NICAM units) to maximum sound reproduction.

2.7 5.742 MHz FM sound demodulator (stereo and NICAM units) Connect a pattern generator and supply a PAL BG signal with two-language sound. Select language II on the unit with the remote control. Set 5103 (stereo units) or 5101 (NICAM units) to maximum sound reproduction.

2.8 Stereo matrix (stereo and NICAM units) Connect a pattern generator and supply a PAL BG signal with stereo sound. Select only the right-hand channel sound. Set the balance of the unit completely to the left. Set 3204 (stereo units) or 3200 (NICAM units) to minimum sound reproduction.

2.9 NICAM demodulator (NICAM units) Connect a pattern generator and supply a PAL signal with NICAM sound. Connect the X-input of the oscilloscope to pin 19-IC7120. Connect the Y-input of the oscilloscope to pin 20-IC7120. Set the oscilloscope to the X-Y position. Set the sensitivity of the oscilloscope to 1V/div AC. Set the X and Y position so that the cross pattern is in the centre of the oscilloscope picture. Set 2124 on a straight cross pattern (see fig. 7.3).

2.10 "Sample" clock oscillator (NICAM units) Connect a pattern generator and supply a PAL signal with NICAM sound. Connect an oscilloscope to pin 9-IC7150. Set the sensitivity of the oscilloscope to 1V/div and the time base to 2µs/div. Set 2155 so that a symmetrical block wave is visible.

3. Setting on the teletext

Connect pin 22-IC7830 to earth. Connect a frequency counter to pin 17-IC7830. Set 6000 MHz $\pm$ 30kHz. Remove the interconnection.

4. Settings on the PIP module

Setting conditions Before making each setting, erase the picture with the prescribed signal. Set the screen and that the unit has reached the normal temperature (after $\approx$ 10 min.).

4.1 Horizontal synchronization Do not supply an aerial or generator. Connect pin 28-IC7125 to pin 11-IC7125. TDA4554 is present (PAL selected). Set 5-IC7755 to earth. Measure the frequency at pin 11-IC7125. Set 3239 set it to 15.625 Hz $\pm$ 25 Hz. Remove the interconnection.

4.2 Chroma bandpass filter Setting for PIP modules with TDA4554

a. Connect a signal generator (e.g. PM 5326) to pin 10 of P17 and set its frequency to 4.43 MHz/0.2Vpp.

Connect pin 27-IC7125 to 13-IC7125. Connect an oscilloscope to pin 15-IC7125. Set 5118 to maximum amplitude. Remove the interconnection.

b. Setting for PIP modules with TDA4554 Connect a signal generator (e.g. PM 5326) to pin 10 of P17 and set its frequency to 4.43 MHz/0.2Vpp. Connect an oscilloscope to pin 15-IC7125. Set 5118 to maximum amplitude. Remove the interconnection.

4.3 PAL chroma auxiliary oscillator Connect a pattern generator at pin 11-IC7126. Connect pin 11-IC7126 to 13-IC7125. Set 2202 so that the colour of the picture is practically still. Remove the interconnection.

4.4 NTSC chroma auxiliary oscillator modules with TDA4554

Connect a pattern generator at pin 11-IC7126. Connect pin 11-IC7126 to earth. Set 2202 so that the colour of the picture is practically still. Remove the interconnection.

3. Setting on the teletext decoder

Connect pin 22-IC7830 to earth. Connect a frequency counter to pin 17-IC7830 and set 5803 to 6000 MHz $\pm$ 30kHz.
Remove the interconnection.

4. Settings on the PIP module

Setting conditions

Before making each setting, ensure that a PIP picture with the prescribed signal is visible on the screen and that the unit has reached its operating temperature (after $\approx$ 10 min.).

4.1 Horizontal synchronization

Do not supply an aerial or generator signal. Connect pin 28-IC7125 to pin 13-IC7125 if TDA4554 is present (PAL selection). Connect pin 5-IC7755 to earth.
Measure the frequency at pin 17-IC7755 and using 3239 set it to 15.625 Hz $\pm$ 25 Hz.
Remove the interconnection.

4.2 Chroma bandpass filter

a. Setting for PIP modules with TDA4554

Connect a signal generator (e.g. PM 5326) to pin 10 of P17 and set its frequency to 4.286 MHz/0.2 Vpp.

Connect pin 27-IC7125 to 13-IC7125. Connect an oscilloscope to pin 15-IC7125.

Set 5118 to maximum amplitude.

Remove the interconnection.

b. Setting for PIP modules with TDA4510

Connect a signal generator (e.g. PM 5326) to pin 10 of P17 and set its frequency to 4.43 MHz/0.2Vpp.

Connect an oscilloscope to pin 9-IC7126.

Set 5118 to maximum amplitude.

4.3 PAL chroma auxiliary oscillator

Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 17-IC7125 (TDA4554) or pin 11-IC7126 (TDA4510) to earth.
Set 2202 so that the colour of the PIP picture is practically still.

Remove the interconnection.

4.4 NTSC chroma auxiliary oscillator for PIP modules with TDA4554

Connect a pattern generator and supply an NTSC M colour bar pattern. Connect pin 17-IC7125 to earth. Set 2202 so that the colour of the PIP picture is practically still.

Remove the interconnection.

4.5 Delay line

Connect a pattern generator and supply a PAL colour bar signal. Connect the X-input of the oscilloscope to pin 1-IC7125 (TDA4554) or pin 1-IC7126 (TDA4510). Connect the Y-input of the oscilloscope to pin 3-IC7125 (TDA4554) or pin 2-IC7126 (TDA4510). Set the oscilloscope to the X-Y position.

Set 5155 and 5157 so that the vectors lie in one line (points which are furthest from the origin).

Set the pattern generator to the "DEM" mode. Set R3157 so that the vectors lie on top of one another in the origin.

4.6 SECAM identification for PIP modules with TDA4554

Connect a pattern generator and supply a SECAM colour bar signal.

Connect pin 27-IC7125 to pin 13-IC7125.

Connect an oscilloscope to pin 21-IC7125.

Set 5190 to minimum DC level.

Remove the interconnection.

4.7 SECAM demodulators for PIP modules with TDA4554

Connect a pattern generator and supply a SECAM signal without contents (black). Connect pin 27-IC7125 to pin 13-IC7125. Connect an oscilloscope to pin 1-IC7125. Using 5175, set the DC level during the scan equal to the DC level during the flyback.

In the same way set 5170, but now measure at pin 3-IC7125.

Remove the interconnection.

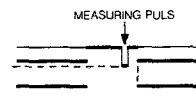


Fig. 7.1

PRS 06772
T-26/034

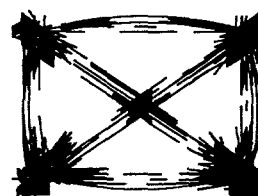
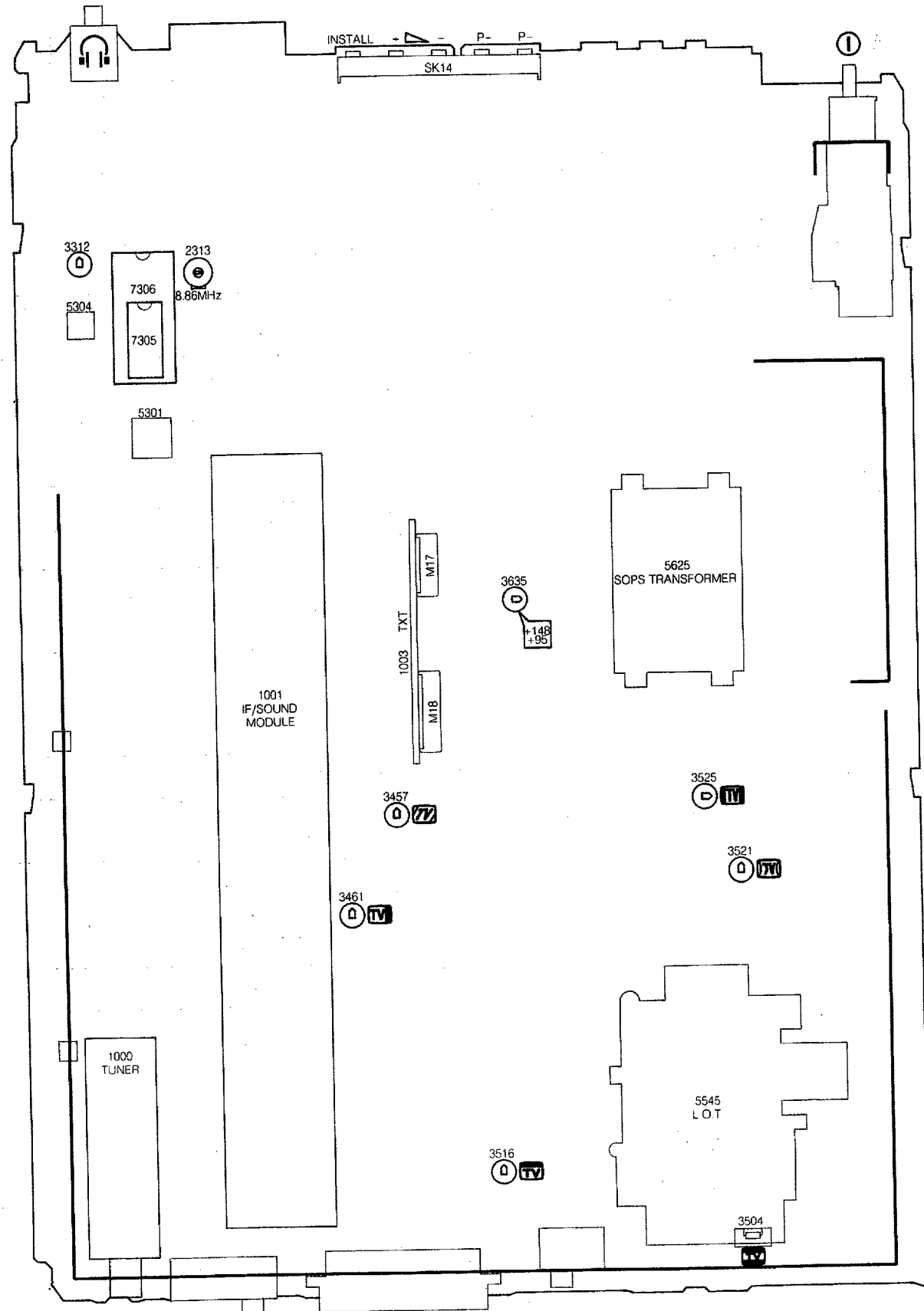


Fig. 7.2

MDA.01468
T28/826

MAIN PANEL



TXT

7E

NIC/

50'

503

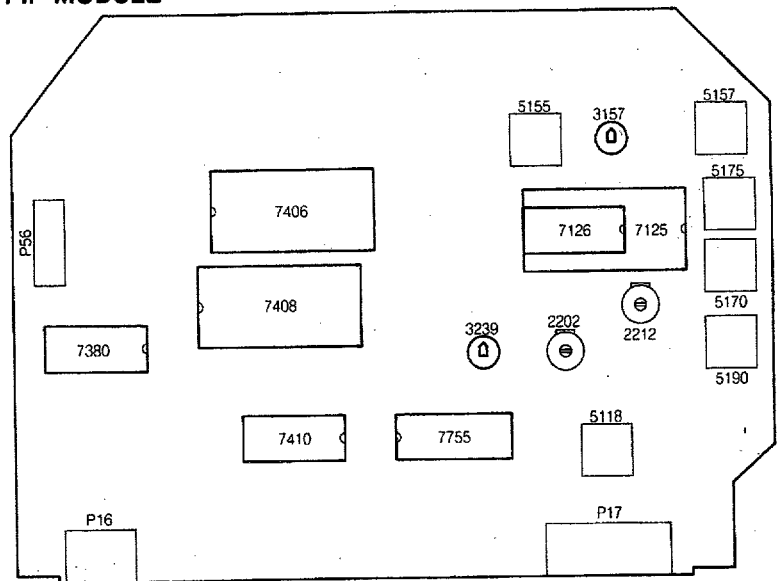
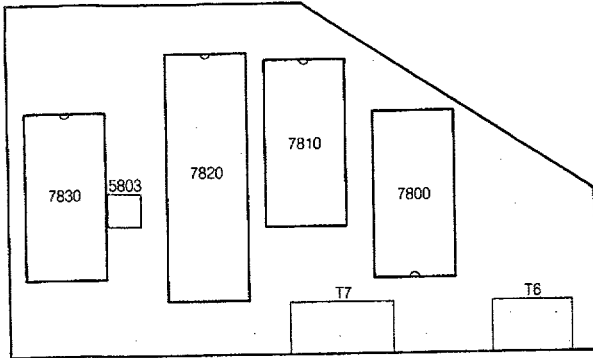
STE

MOI

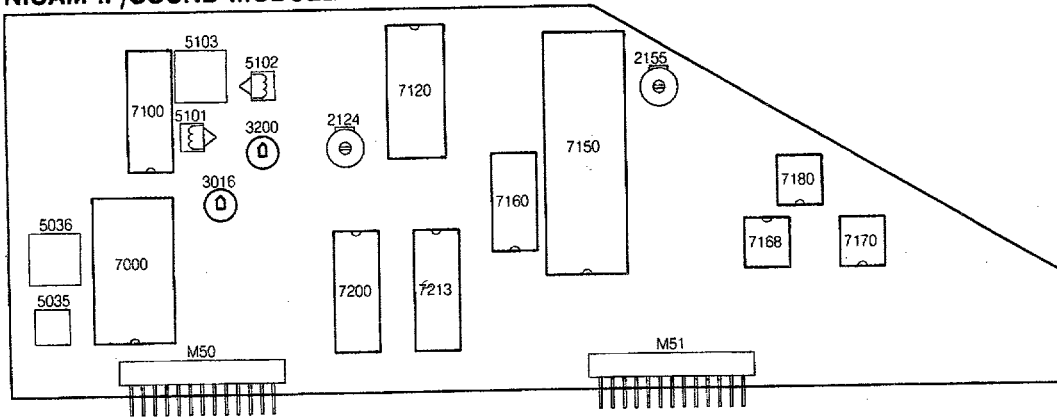
Fig. 7.3

PIP MODULE

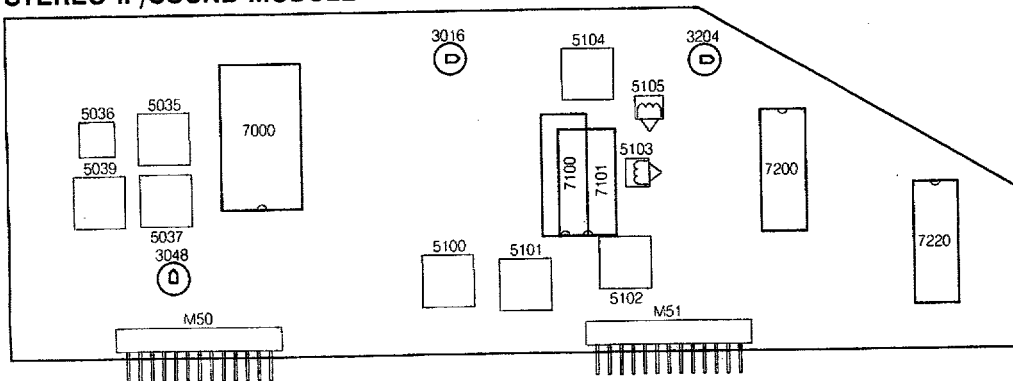
TXT MODULE



NICAM IF/SOUND MODULE



STEREO IF/SOUND MODULE



MONO IF/SOUND MODULE

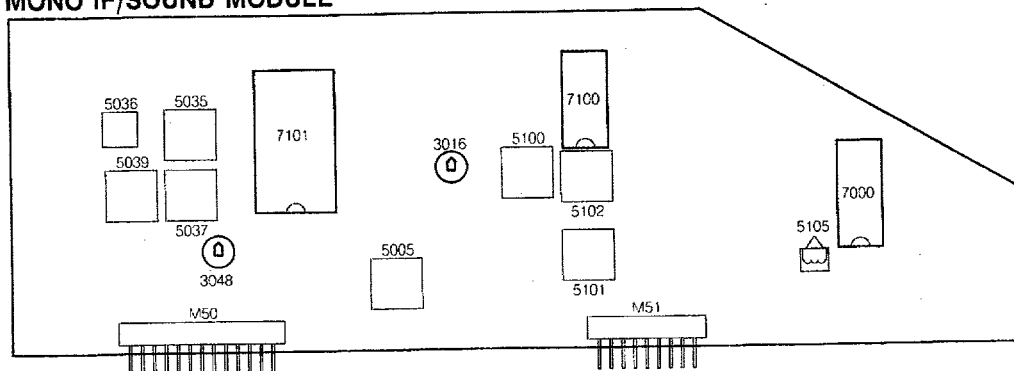


Fig. 7.3

1. Servicing of SMDs (Surface Mounted Devices)

1.1 General cautions on handling and storage

- Oxidation on the terminals of SMDs results in poor soldering. Do not handle SMDs with bare hands.
- Avoid using storage places that are sensitive to oxidation such as places with sulphur or chlorine gas, direct sunlight, high temperatures or a high degree of humidity.
The capacitance or resistance value of the SMDs may be affected by this.
- Rough handling of circuit boards containing SMDs may cause damage to the components as well as the circuit boards. Circuit boards containing SMDs should never be bent or flexed. Different circuit board materials expand and contract at different rates when heated or cooled and the components and/or solder connections may be damaged due to the stress. Never rub or scrape chip components as this may cause the value of the component to change. Similarly, do not slide the circuit board across any surface.

1.2 Removal of SMDs

- Heat the solder (for 2-3 seconds) at each terminal of the chip. By means of litz wire and a slight horizontal force, small components can be removed with the soldering iron. They can also be removed with a solder sucker (see Fig. 8.1A) or:
- While holding the SMD with a pair of tweezers, take it off gently using the soldering iron's heat applied to each terminal (see Fig. 8.1B).
- Remove the excess solder on the solder lands by means of litz wire or a solder sucker (see Fig. 8.1C).

Caution on removal:

- When handling the soldering iron, use suitable pressure and be careful.
- When removing the chip, do not use undue force with the pair of tweezers.
- The soldering iron to be used (approx. 30 W) should preferably be equipped with a thermal control (soldering temperature: 225 to 250°C).
- The chip, once removed, must never be reused.

1.3 Attachment of SMDs

- Locate the SMD on the solder lands by means of tweezers and solder the component on one side. Ensure that the component is positioned correctly on the solder lands (see Fig. 8.2A).
- Next complete the soldering of the terminals of the component (see Fig. 8.2B).

Caution when attaching SMDs:

- When soldering the SMD terminals, do not touch them directly with the soldering iron. The soldering should be done as quickly as possible; care must be taken to avoid damage to the terminals of the SMDs themselves.
- Keep the SMD's body in contact with the printed board when soldering.
- The soldering iron to be used (approx. 30 W) should preferably be equipped with a thermal control (soldering temperature: 225 to 250°C).
- Soldering should not be done outside the solder land.
- Soldering flux (of rosin) may be used, but should not be acidic.
- After soldering, let the SMD cool down gradually at room temperature.
- The quantity of solder must be proportional to the size of the solder land. If the quantity is too great, the SMD might crack or the solder lands might be torn loose from the printed board (see Fig. 8.3).

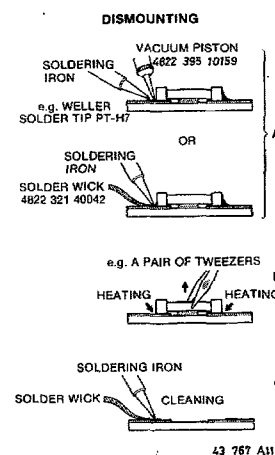


Fig. 8.1

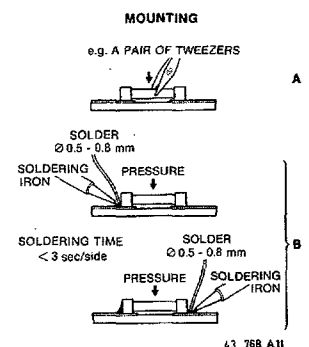


Fig. 8.2

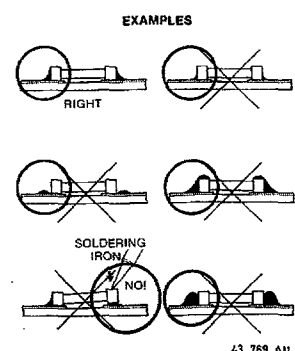


Fig. 8.3

2. Replacing the EEPROM IC7710

If the EEPROM has to be replaced during a repair, the microprocessor will load the EEPROM with a number of default values for the white balance, peak white limit and cut-off point settings.

However, all these values should be checked and adjusted, if necessary.

All options should also be set, the programs installed and personal preference set.

3. Table of fault messages

Fault indication	Description	Possible fault
OSD: ER PIP	I ² C fault PIP module	* +5 on PIP module * IC7406
OSD: ER TXT	I ² C fault TXT module	* +5 on teletext module * IC7800
OSD: ER NICAM	I ² C fault IC7160 (NICAM units)	* +5 on MF/sound module * IC7160, C2160, C2161, C2221, C2222 * IC7213
OSD: ER 8415	I ² C fault IC7200 (stereo and NICAM units)	* +14 on MF/sound module * IC7200 * IC7220
OSD: ER 8425	I ² C fault IC7213 (NICAM units) I ² C fault IC7220 (Stereo units)	* IC7213/IC7220
OSD: ER EEPROM	I ² C fault IC7710	* IC7710
OSD: ER TUNER	I ² C fault tuner (stereo and NICAM units)	* Tuner * TS7003
OSD: ER CHROMA	I ² C fault IC7309	* supply IC7309 (+9) * IC7309
Flashing LED	Internal fault in μ P	* IC7708
OSD: ER BUS	I ² C bus blocked	* C2714, C2715

1. Service default mode

The GR2.1 is equipped with a service default mode. The service default mode is a fixed defined mode in which the unit can be placed.

1.1 Mode definition

The definition of the fixed mode in the service default mode is as follows:

- all sound and picture controls are in the central position (with the exception of the volume which is set to low)
- stereo units are tuned to 475.25 MHz
- mono units are tuned to programme 0
- system:
 - * PAL BG, PAL/SECAM BG or PAL I for single system units
 - * SECAM L for multisystem units.

1.2 Switching on and off

The service default mode is switched on by briefly short-circuiting the pins M33 and M34 (SERVICE) behind the INSTALL key on the carrier panel when switching the unit on with the mains switch. In order to indicate that the unit is in the service default mode, an "S" appears on the screen. The service default mode can only be switched off by switching the unit to standby. If the unit is switched off and then on again using the mains switch or mains plug, the service default mode remains switched on.

1.3 Operation and extra facilities

In addition to the fact that the unit can be operated normally, in the service default mode two extra functions are available:

- Autostore
When operating the install key on the local control panel, the unit is tuned to the next transmitter frequency. This frequency is also stored under the selected programme number. Therefore the installation menu cannot be accessed in the service default mode!
- Service menu
The service menu is activated by first pressing the  key and then at the same time the P+ key on the local control panel. The service menu now appears on the screen. The service menu offers the facility to set various options and make a number of picture tube settings. The various components in the service menu are selected using the coloured keys on the remote control. The various components themselves are adjusted using the + and - keys on the remote control. The values and options set are immediately stored in the EEPROM.

Note 1:

If the service menu does not appear on the screen and the autostore function does not react, then the "LOCK" function is probably activated.

If the autostore function only does not react, the hotel mode is activated.

Note 2:

If a multisystem unit in the service default mode is to be used with the PAL/SECAM BG system, the "MULTI SYSTEM" option can be temporarily switched off.

2. Hotel mode

In the hotel mode the volume control is limited to a maximum to be set beforehand and the installation menu cannot be called up.

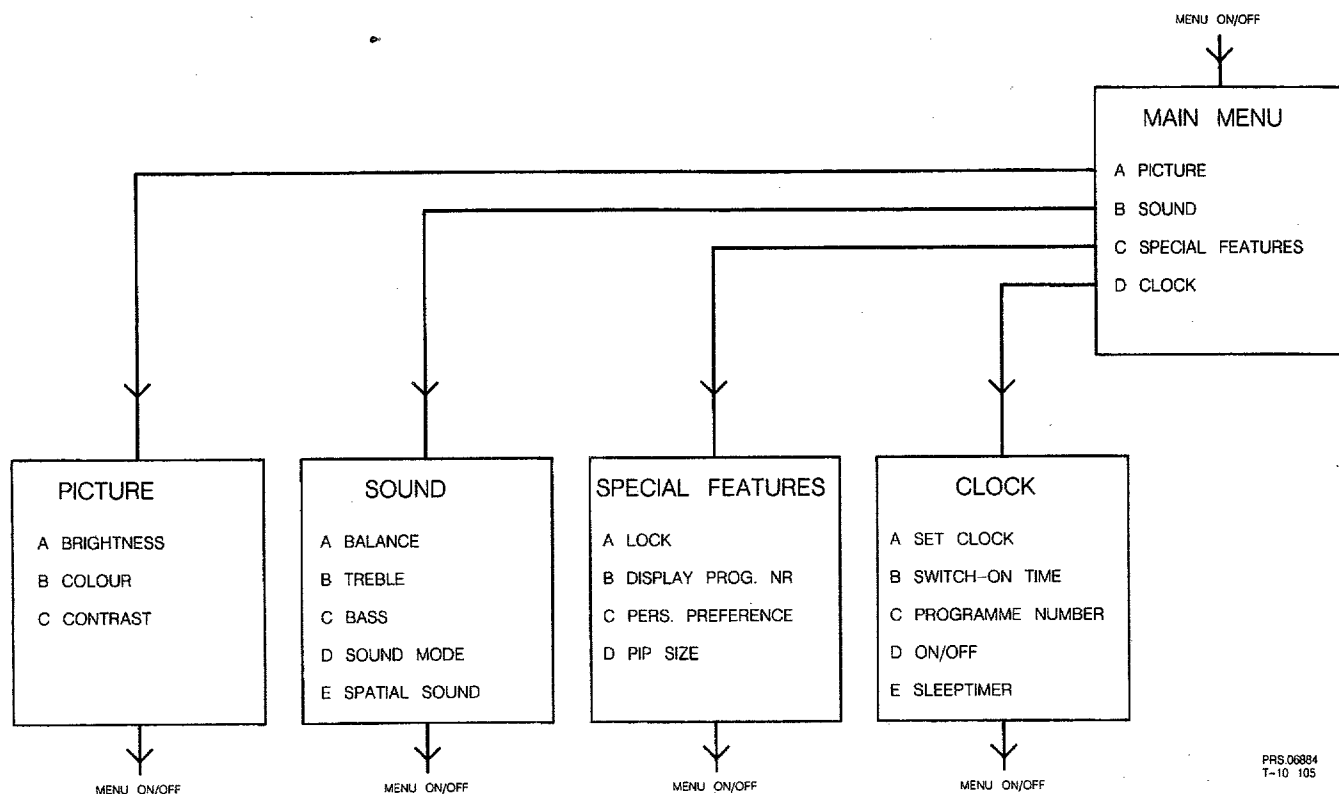
2.1 Switching the hotel mode on and off

Select programme number 38.

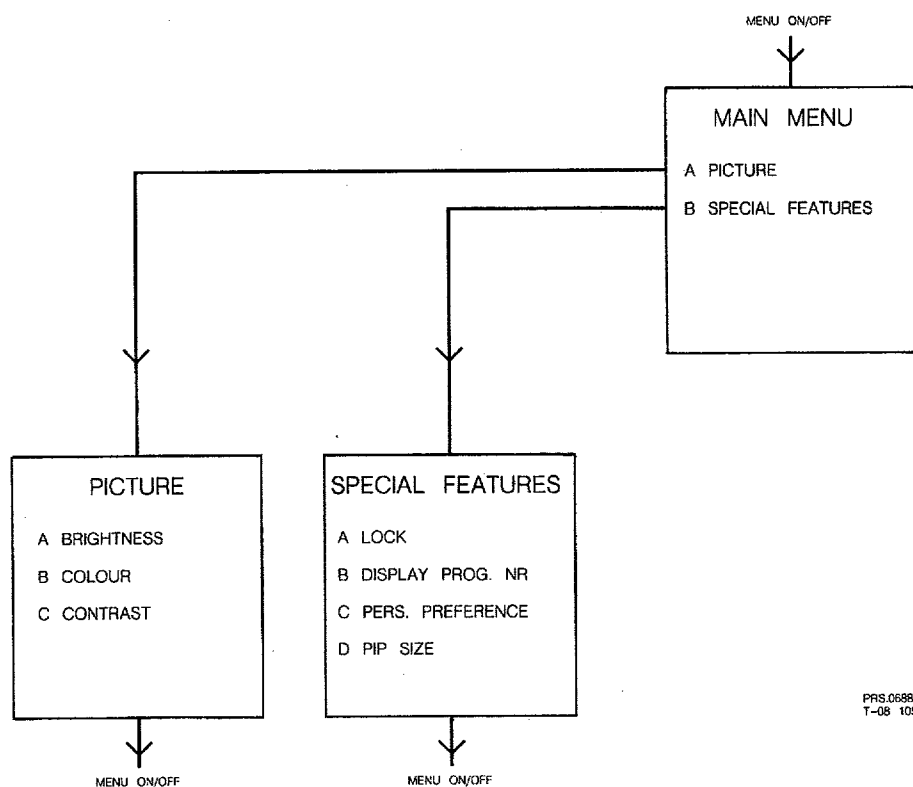
First press  + and keep this depressed while pressing P -.

Survey of menus

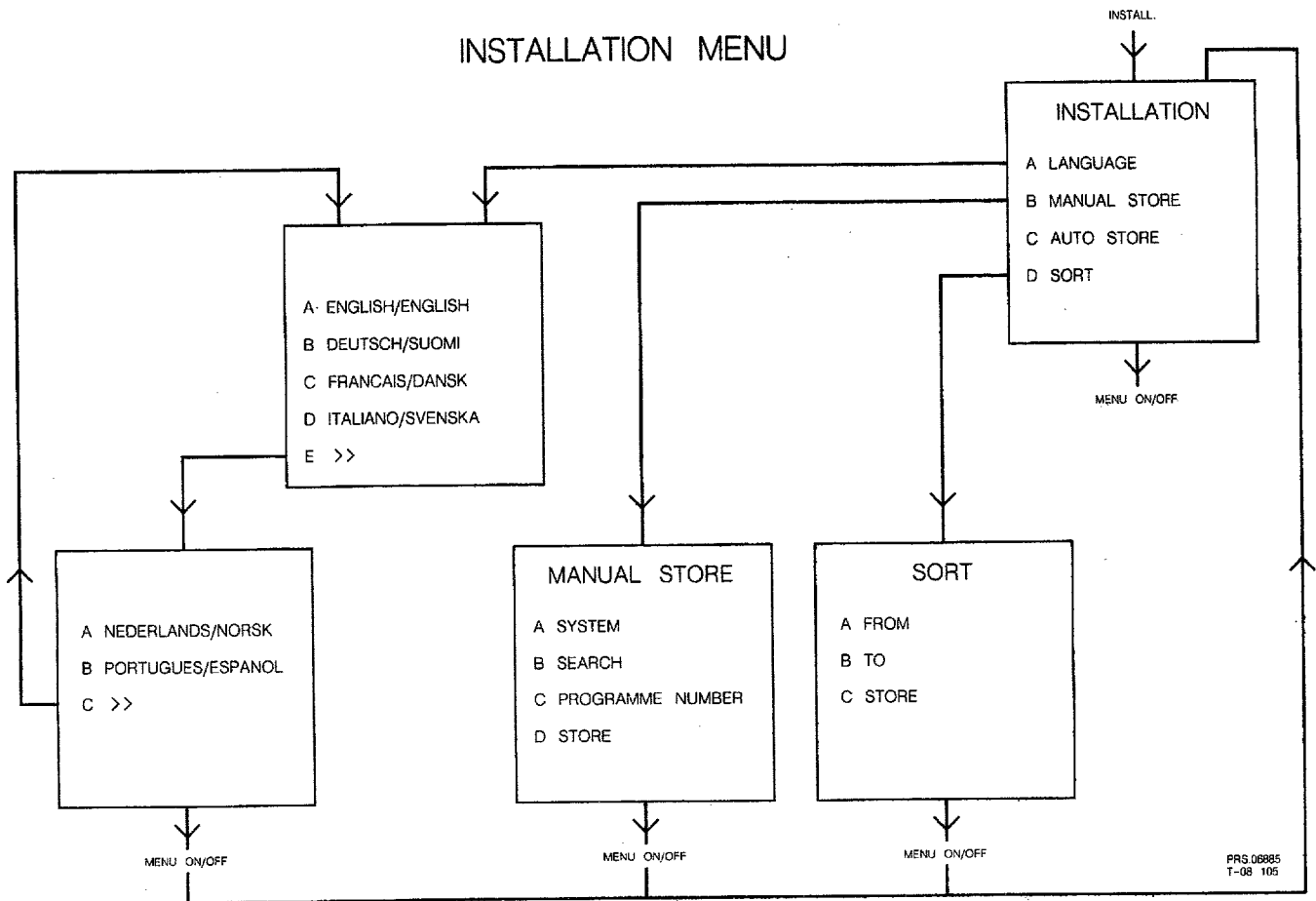
MAIN MENU STEREO



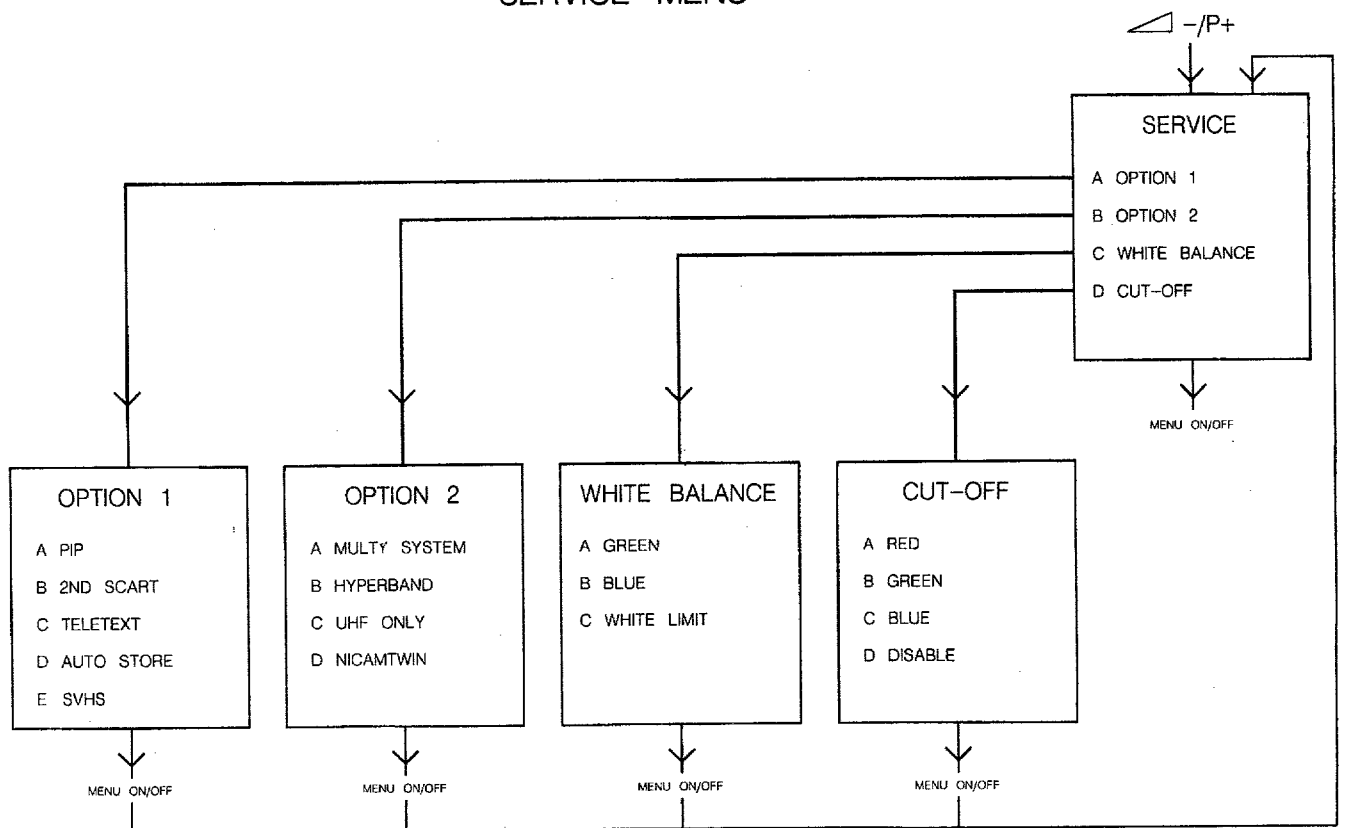
MAIN MENU MONO



INSTALLATION MENU



SERVICE MENU



Carrier panel

Mechanical parts			— —			— —		
4822 404 31174	bracket EURO MOD.		2003 4822 122 31784	4,7nF 10% 50V		2333 4822 121 42408	220nF 5% 63V	
4822 492 70871	spring (wire)		2003 4822 122 32893	100nF 80% 50V		2334 4822 122 31965	220pF 5% 63V	
4822 492 70143	spring fix. TS7625		2004 4822 122 33205	12pF 10% 63V		2335 4822 122 31965	220pF 5% 63V	
4822 256 91766	LED holder		2008 4822 122 31765	100pF 5% 50V		2336 4822 122 31797	22nF 10% 63V	
4822 276 50354	keyboard 5-fold		2231 4822 124 41525	100µF 20% 25V		2337 4822 122 31797	22nF 10% 63V	
4822 466 30395	shielding IC7708		2232 4822 122 32863	22nF 80% 50V		2338 4822 122 31797	22nF 10% 63V	
4822 256 30274	fuse holder		2233 4822 122 32863	22nF 80% 50V		2339 4822 122 33496	100nF 10% 63V	
4822 320 20126	focus cable		2234 4822 122 32863	22nF 80% 50V		2340 4822 122 31797	22nF 10% 63V	
			2235 4822 122 32863	22nF 80% 50V		2341 4822 122 31797	22nF 10% 63V	
			2236 4822 122 31784	4,7nF 10% 50V		2342 4822 122 33496	100nF 10% 63V	
			2237 4822 122 32893	100nF 80% 50V		2343 4822 122 33496	100nF 10% 63V	
			2238 4822 122 32597	6,8nF 10% 63V		2344 4822 122 33496	100nF 10% 63V	
			2238 4822 122 31784	4,7nF 10% 50V		2345 4822 122 31797	22nF 10% 63V	
			2239 4822 122 32893	100nF 80% 50V		2346 4822 122 31765	100pF 5% 50V	
			2240 4822 124 40214	1000µF 20% 25V		2349 5322 122 31647	1nF 10% 63V	
			2241 4822 122 32893	100nF 80% 50V		2350 4822 122 31797	22nF 10% 63V	
			2242 4822 124 40214	1000µF 20% 25V		2351 4822 122 31797	22nF 10% 63V	
			2243 4822 122 32863	22nF 80% 50V		2352 5322 122 31647	1nF 10% 63V	
			2245 4822 122 32863	22nF 80% 50V		2353 4822 122 33496	100nF 10% 63V	
			2246 4822 124 41596	22µF 20% 50V		2354 4822 124 40242	1µF 20% 63V	
			2246 4822 124 41506	47µF 20% 16V		2355 4822 124 40849	330µF 20% 16V	
			2248 4822 124 40849	330µF 20% 16V		2356 4822 122 31797	22nF 10% 63V	
			2249 4822 122 32863	22nF 80% 50V		2357 4822 122 31797	22nF 10% 63V	
			2250 4822 121 42472	10nF 10% 50V		2358 4822 122 31797	22nF 10% 63V	
			2251 4822 121 42472	10nF 10% 50V		2359 4822 122 31765	100pF 5% 50V	
			2252 4822 121 51252	470nF 5% 63V		2360 4822 122 33496	100nF 10% 63V	
			2254 4822 121 51252	470nF 5% 63V		2361 4822 122 33496	100nF 10% 63V	
			2255 4822 121 51252	470nF 5% 63V		2362 4822 122 33496	100nF 10% 63V	
			2256 4822 122 32142	270pF 5% 63V		2363 4822 122 31972	39pF 5% 50V	
			2257 4822 122 32142	270pF 5% 63V		2365 4822 124 40242	1µF 20% 63V	
			2260 4822 122 32566	3,9nF 10% 63V		2366 4822 124 41566	3,3µF 20% 50V	
			2261 4822 122 32566	3,9nF 10% 63V		2367 4822 124 40435	10µF 20% 50V	
			2262 4822 122 32142	270pF 5% 63V		2367 4822 124 41596	22µF 20% 50V	
			2263 4822 122 32142	270pF 5% 63V		2368 4822 122 33205	12pF 10% 63V	
			2264 4822 121 51252	470nF 5% 63V		2368 4822 122 32504	15pF 5% 50V	
			2265 4822 121 51252	470nF 5% 63V		2370 4822 121 42408	220nF 5% 63V	
			2300 4822 122 32482	22pF 5% 63V		2371 4822 122 31825	27pF 10% 50V	
			2301 4822 122 31773	560pF 5% 50V		2372 4822 122 31825	27pF 10% 50V	
			2303 4822 122 32142	270pF 5% 63V		2373 4822 122 31825	27pF 10% 50V	
			2304 4822 122 33498	2,7nF 10% 63V		2374 4822 122 31772	47pF 5% 50V	
			2304 4822 122 31773	560pF 5% 50V		2375 4822 122 31765	100pF 5% 50V	
			2305 4822 122 32444	33pF 5% 50V		2376 4822 122 31765	100pF 5% 50V	
			2306 4822 122 31965	220pF 5% 63V		2380 4822 122 31766	120pF 5% 50V	
			2307 4822 122 31965	220pF 5% 63V		2381 4822 122 31766	120pF 5% 50V	
			2308 4822 122 32442	10nF 50V		2384 4822 122 31765	100pF 5% 50V	
			2309 4822 122 32442	10nF 50V		2384 4822 051 10008	0Ω 5% 0,25W	
			2310 4822 122 32442	10nF 50V		2385 4822 122 31765	100pF 5% 50V	
			2311 4822 122 33496	100nF 10% 63V		2451 4822 122 32442	10nF 50V	
			2312 4822 122 32442	10nF 50V		2451 4822 122 33496	100nF 10% 63V	
			2313 4822 125 50045	20pF		2456 4822 124 40242	1µF 20% 63V	
			2314 5322 121 42661	330nF 5% 63V		2457 4822 122 33496	100nF 10% 63V	
			2315 4822 122 32504	15pF 5% 50V		2458 4822 121 42937	2,7nF 1% 250V	
			2315 4822 122 33205	12pF 10% 63V		2459 4822 122 33496	100nF 10% 63V	
			2316 4822 122 31825	27pF 10% 50V		2460 5322 122 31647	1nF 10% 63V	
			2317 4822 122 33466	82pF 2%		2460 4822 122 31784	4,7nF 10% 50V	
			2318 4822 122 32875	100pF 5% 50V		2460 4822 122 32442	10nF 50V	
			2319 4822 122 31825	27pF 10% 50V		2461 5322 122 31647	1nF 10% 63V	
			2320 4822 122 32444	33pF 5% 50V		2464 4822 122 33496	100nF 10% 63V	
			2320 4822 122 31839	82pF 10% 50V		2465 4822 124 40849	330µF 20% 16V	
			2321 4822 122 31797	22nF 10% 63V		2466 4822 124 41577	4,7µF 20% 50V	
			2322 4822 122 31797	22nF 10% 63V		2467 4822 122 33496	100nF 10% 63V	
			2323 4822 122 32542	47nF 10% 63V		2468 4822 124 40242	1µF 20% 63V	
			2325 4822 122 32542	47nF 10% 63V		2469 4822 124 41596	22µF 20% 50V	
			2326 4822 051 10008	0Ω 5% 0,25W		2470 4822 122 31772	47pF 5% 50V	
			2326 4822 122 33496	100nF 10% 63V		2471 5322 121 42661	330nF 5% 63V	
			2327 4822 122 32442	10nF 50V		2473 5322 121 42661	330nF 5% 63V	
			2328 4822 121 41856	22nF 5% 250V		2475 4822 122 31797	22nF 10% 63V	
			2328 4822 121 42408	220nF 5% 63V		2500 4822 122 31965	220pF 5% 63V	
			2329 4822 121 42408	220nF 5% 63V		2500 4822 122 31727	470pF 5% 63V	
			2329 4822 121 41856	22nF 5% 250V		2502 4822 124 41596	22µF 20% 50V	
			2330 4822 122 31765	100pF 5% 50V		2505 4822 122 32542	47nF 10% 63V	
			2331 4822 122 31765	100pF 5% 50V		2506 4822 124 41747	680µF 20%	
			2332 5322 122 31842	330pF 5% 63V		2506 4822 124 41334	470µF 20% 35V	
			</					

Carrier panel (continued)

								
2507	4822 122 31797	22nF 10% 63V	2675	4822 124 21215	680μF 20% 40V	3245	4822 051 10103	10k 2% 0,25W
2509	4822 124 41576	2,2μF 20% 50V	2676	5322 122 32331	1nF 10% 100V	3246	4822 050 23301	330Ω 1% 0,6W
2520	5322 124 41299	68μF 20% 25V	2701	4822 122 31765	100pF 5% 50V	3247	4822 116 52175	100Ω 5% 0,5W
2521	4822 122 32891	68nF 10% 63V	2702	4822 122 32442	10nF 50V	3248	4822 050 23301	330Ω 1% 0,6W
2522	5322 121 42661	330nF 5% 63V	2703	4822 121 51252	470nF 5% 63V	3249	4822 116 52193	39Ω 5% 0,5W
2524	4822 124 21208	4,7μF 20% 50V	2704	4822 122 32542	47nF 10% 63V	3249	4822 116 52175	100Ω 5% 0,5W
2524	4822 124 42167	4,7μF 20% 50V	2705	4822 122 31766	120pF 5% 50V	3250	4822 116 52204	1k 5% 0,5W
2526	4822 121 42472	10nF 10% 50V	2706	5322 124 41299	68μF 20% 25V	3251	4822 116 52204	1k 5% 0,5W
2526	4822 122 31759	18nF 10%	2707	4822 124 40242	1μF 20% 63V	3253	4822 116 52211	150Ω 5% 0,5W
2528	5322 121 42025	0,22μF 10% 250V	2708	4822 122 31766	120pF 5% 50V	3254	4822 116 52211	150Ω 5% 0,5W
2531	4822 121 43396	120nF 5% 63V	2709	4822 122 32083	8,2pF 5% 50V	3255	4822 116 52204	1k 5% 0,5W
2531	4822 121 42408	220nF 5% 63V	2710	4822 122 32083	8,2pF 5% 50V	3256	4822 116 52204	1k 5% 0,5W
2532	4822 124 40242	1μF 20% 63V	2711	4822 122 31825	27pF 10% 50V	3257	4822 051 10334	330k 2% 0,25W
2532	4822 124 41577	4,7μF 20% 50V	2712	4822 122 31825	27pF 10% 50V	3258	4822 051 10334	330k 2% 0,25W
2533	4822 124 40242	1μF 20% 63V	2713	4822 124 41525	100μF 20% 25V	3259	4822 051 10334	330k 2% 0,25W
2538	4822 121 51256	39nF 10% 50V	2714	4822 122 31766	120pF 5% 50V	3260	4822 051 10334	330k 2% 0,25W
2539	4822 124 41525	100μF 20% 25V	2715	4822 122 31766	120pF 5% 50V	3261	4822 116 80747	75Ω 5% 0,125W
2545	4822 126 10202	1,5nF 10% 2kV	2716	4822 122 33496	100nF 10% 63V	3262	4822 116 80747	75Ω 5% 0,125W
2545	4822 122 33707	1,2nF 10% 2kV	2717	4822 122 31644	2,2nF 10% 63V	3263	4822 051 10008	0Ω 5% 0,25W
2546	5322 121 42523	8,2nF 5% 2kV	2718	4822 122 33496	100nF 10% 63V	3263	4822 051 10562	5k6 2% 0,25W
2546	5322 121 41603	10nF 5% 2kV	2719	4822 124 40242	1μF 20% 63V	3264	4822 051 10008	0Ω 5% 0,25W
2546	4822 121 43065	7,5nF 5% 2kV	2719	5322 121 42386	100nF 5% 63V	3264	4822 051 10562	5k6 2% 0,25W
2547	4822 121 40488	22nF 10% 400V	2721	4822 122 32442	10nF 50V	3265	4822 050 21008	1Ω 1% 0,6W
2547	5322 121 44151	33nF 10% 400V	2722	4822 121 42007	100nF 10% 100V	3266	4822 050 21008	1Ω 1% 0,6W
2549	4822 121 42073	390 nF 10% 400V	2722	4822 122 32893	100nF 80% 50V	3300	4822 051 10562	5k6 2% 0,25W
2549	4822 121 42074	470 nF 10% 400V	2781	4822 122 33496	100nF 10% 63V	3301	4822 051 10272	2k7 2% 0,25W
2550	4822 121 51527	390nF 5% 250V	2800	4822 124 41506	47μF 20% 16V	3302	4822 051 20222	2k2 5% 0,1W
2550	4822 121 43148	470nF 10% 2000V	2805	4822 122 31772	47pF 5% 50V	3303	4822 051 10332	3k3 2% 0,25W
2551	4822 124 41831	1μF 20% 160V	2810	4822 122 31784	4,7nF 10% 50V	3303	4822 051 10122	1k2 2% 0,25W
2559	4822 124 41525	100μF 20% 25V	2875	4822 122 32893	100nF 80% 50V	3304	4822 051 10182	1k8 2% 0,25W
2560	4822 121 51408	33nF 10% 250V				3305	4822 051 10431	430Ω 2% 0,25W
2563	4822 122 10175	2,2nF 10% 50V				3306	4822 051 10103	10k 2% 0,25W
2570	4822 124 40764	22μF 100 V				3307	4822 051 10681	680Ω 2% 0,25W
2574	4822 122 10175	2,2nF 10% 50V				3308	4822 051 10331	330Ω 2% 0,25W
2580	4822 124 40214	1000μF 20% 25V				3309	4822 051 10331	330Ω 2% 0,25W
2585	4822 124 40435	10μF 20% 50V				3310	4822 116 52286	5k1 5% 0,5W
2588	4822 122 31644	2,2nF 10% 63V				3311	4822 051 10391	390Ω 2% 0,25W
2590	5322 121 42498	680nF 5% 63V				3312	4822 100 11677	470Ω 30% lin 0,2W
2590	5322 121 42498	680nF 5% 63V				3313	4822 051 10103	10k 2% 0,25W
2600	4822 124 41531	470nF 10%				3313	4822 051 10332	3k3 2% 0,25W
		250VAC				3314	4822 051 10103	10k 2% 0,25W
2605	4822 124 23492	220μF 50% 385V				3315	4822 051 10911	910Ω 2% 0,25W
2605	4822 124 42104	68μF 20% 385V				3316	4822 051 10105	1M 5% 0,25W
2607	4822 122 33922	1nF 20% 400V				3317	4822 051 20222	2k2 5% 0,1W
2611	5322 124 41299	68μF 20% 25V				3318	4822 051 10472	4k7 2% 0,25W
2617	4822 121 43047	1μF 10% 63V				3323	4822 116 52272	330k 5% 0,5W
2620	5322 121 42465	68nF 5% 63V				3325	4822 051 10271	270Ω 2% 0,25W
2625	4822 122 40593	1nF 10% 1kV				3326	4822 051 10271	270Ω 2% 0,25W
2626	4822 122 40594	470pF 10% 1kV				3327	4822 050 11202	1k2 1% 0,4W
2629	4822 122 31784	4,7nF 10% 50V				3328	4822 051 10473	47k 2% 0,25W
2630	4822 124 23418	47μF 200V				3330	4822 051 10109	10Ω 2% 0,25W
2630	4822 124 22349	100μF 160V				3331	4822 051 10109	10Ω 2% 0,25W
2631	4822 124 22349	100μF 160V				3332	4822 050 23901	390Ω 1% 0,6W
2631	4822 124 23418	47μF 200V				3334	4822 050 21809	18Ω 1% 0,6W
2632	4822 126 11382	1nF 10% 1kV				3335	4822 116 52184	18Ω 5% 0,5W
2636	4822 122 31644	2,2nF 10% 63V				3336	4822 052 10189	18Ω 5% 0,33W
2640	4822 124 40214	1000μF 20% 25V				3336	4822 052 10279	27Ω 5% 0,33W
2641	4822 124 40214	1000μF 20% 25V				3337	4822 052 10189	18Ω 5% 0,33W
2646	4822 124 42153	15μF 20% 50V				3337	4822 052 10279	27Ω 5% 0,33W
2649	4822 122 33496	100nF 10% 63V				3338	4822 116 52204	1k 5% 0,5W
2650	4822 122 33496	100nF 10% 63V				3339	4822 051 10152	1k5 2% 0,25W
2652	5322 122 32331	1nF 10% 100V				3340	4822 116 52204	1k 5% 0,5W
2653	5322 122 32331	1nF 10% 100V				3341	4822 051 10103	10k 2% 0,25W
2658	5322 122 32838	82nF 10% 63V				3342	4822 051 10102	1k 2% 0,25W
2660	4822 124 40201	1000μF 20% 16V				3343	4822 051 10104	100k 2% 0,25W
2661	4822 124 41506	47μF 20% 16V				3344	4822 051 10182	1k8 2% 0,25W
2662	4822 122 30107	270pF 2% 100V				3347	4822 116 52219	330Ω 5% 0,5W
2662	5322 122 32056	220pF 2% 100V				3348	4822 116 52219	330Ω 5% 0,5W
2663	5322 122 32344	82pF 2% 100V				3349	4822 116 52219	330Ω 5% 0,5W
2663	4822 122 31081	100pF 2% 100V				3350	4822 116 52204	1k 5% 0,5W
2664	4822 124 41576	2,2μF 20% 50V				3351	4822 116 52263	2k7 5% 0,5W
2670	4822 122 31766	120pF 5% 50V				3352	4822 116 52263	2k7 5% 0,5W
2671	4822 121 42408	220nF 5% 63V				3353	4822 116 52263	2k7 5% 0,5W
2675	5322 124 41468	1000μF 20% 40V						

Carrier panel (continued)



3354	4822 051 10221	220Ω 2% 0,25W
3357	4822 051 10102	1k 2% 0,25W
3358	4822 051 10331	330Ω 2% 0,25W
3359	4822 051 10331	330Ω 2% 0,25W
3360	4822 051 10102	1k 2% 0,25W
3361	4822 051 10102	1k 2% 0,25W
3362	4822 051 10472	4k7 2% 0,25W
3365	4822 116 52245	150k 5% 0,5W
3365	4822 116 52301	75k 5% 0,5W
3366	4822 051 20183	18k 5% 0,1W
3367	4822 116 52175	100Ω 5% 0,5W
3368	4822 116 52175	100Ω 5% 0,5W
3369	4822 116 52175	100Ω 5% 0,5W
3370	4822 051 10332	3k3 2% 0,25W
3371	4822 051 10332	3k3 2% 0,25W
3372	4822 051 10472	4k7 2% 0,25W
3373	4822 051 10102	1k 2% 0,25W
3374	4822 050 26803	68k 1% 0,6W
3375	4822 051 10331	330Ω 2% 0,25W
3376	4822 051 10331	330Ω 2% 0,25W
3380	4822 051 10101	100Ω 2% 0,25W
3381	4822 051 10101	100Ω 2% 0,25W
3394	4822 051 10104	100k 2% 0,25W
3395	4822 051 10683	68k 2% 0,25W
3450	4822 116 52238	12k 5% 0,5W
3451	4822 116 52175	100Ω 5% 0,5W
3452	4822 116 52175	100Ω 5% 0,5W
3455	4822 051 10102	1k 2% 0,25W
3456	4822 051 10682	6k8 2% 0,25W
3457	4822 100 11676	10k 30% lin 0,2W
3458	4822 051 10303	30k 2% 0,25W
3459	4822 051 10823	82k 2% 0,25W
3460	4822 051 10333	33k 2% 0,25W
3461	4822 100 11682	47k 30% lin 0,2W
3463	4822 051 20183	18k 5% 0,1W
3464	4822 051 10123	12k 2% 0,25W
3465	4822 051 10394	390k 2% 0,25W
3466	4822 051 10152	1k5 2% 0,25W
3467	4822 116 80692	2M2 5% 0,2W
3467	4822 050 21205	1M2 1% 0,6W
3468	4822 051 10682	6k8 2% 0,25W
3469	4822 051 10229	22Ω 2% 0,25W
3470	4822 116 52269	3k3 5% 0,5W
3471	4822 050 19109	91Ω 1% 0,4W
3473	4822 116 52265	270k 5% 0,5W
3474	4822 051 10392	3k9 2% 0,25W
3483	4822 051 10479	47Ω 2% 0,25W
3485	4822 051 20222	2k2 5% 0,1W
3501	4822 051 10759	75Ω 2% 0,25W
3501	4822 051 10101	100Ω 2% 0,25W
3502	4822 050 28201	820Ω 1% 0,6W
3503	4822 052 10108	1Ω 5% 0,33W
3504	4822 100 11684	100Ω 10% 0,1W
3505	4822 051 10471	470Ω 2% 0,25W
3506	4822 116 52245	150k 5% 0,5W
3507	4822 116 52233	10k 5% 0,5W
3507	4822 116 52238	12k 5% 0,5W
3508	4822 051 10228	22Ω 5% 0,25W
3509	4822 051 10228	22Ω 5% 0,25W
3510	4822 051 10228	22Ω 5% 0,25W
3511	4822 051 10228	22Ω 5% 0,25W
3512	4822 051 10109	10Ω 2% 0,25W
3513	4822 050 25601	560Ω 1% 0,6W
3514	4822 051 10392	3k9 2% 0,25W
3515	4822 051 10228	22Ω 5% 0,25W
3516	4822 100 11678	22k 30% lin 0,2W
3517	4822 051 10228	22Ω 5% 0,25W
3518	4822 051 10101	100Ω 2% 0,25W
3519	4822 051 10228	22Ω 5% 0,25W
3520	4822 116 52211	150Ω 5% 0,5W
3521	4822 100 11679	4,7k 30% lin 0,2W
3522	4822 051 10152	1k5 2% 0,25W
3523	4822 051 10228	22Ω 5% 0,25W



3524	4822 051 10683	68k 2% 0,25W
3525	4822 100 11678	22k 30% lin 0,2W
3525	4822 100 11676	10k 30% lin 0,2W
3526	4822 051 10823	82k 2% 0,25W
3526	4822 051 10104	100k 2% 0,25W
3527	4822 051 10125	1M2 5% 0,25W
3527	4822 051 10333	33k 2% 0,25W
3528	4822 051 20222	2k2 5% 0,1W
3528	4822 051 10681	680Ω 2% 0,25W
3529	4822 051 10228	22Ω 5% 0,25W
3530	4822 051 10102	1k 2% 0,25W
3530	4822 051 10008	0Ω 5% 0,25W
3531	4822 051 10104	100k 2% 0,25W
3531	4822 051 10008	0Ω 5% 0,25W
3532	4822 051 10103	10k 2% 0,25W
3532	4822 051 10153	15k 2% 0,25W
3533	4822 051 10822	8k2 2% 0,25W
3534	4822 052 10828	8Ω2 5% 0,33W
3535	4822 116 52231	820Ω 5% 0,5W
3535	4822 116 52243	1k5 5% 0,5W
3536	4822 051 10822	8k2 2% 0,25W
3538	4822 116 52251	18k 5% 0,5W
3539	4822 053 20684	680k 5% 0,25W
3539	4822 053 20434	430k 5% 0,25W
3540	4822 051 10399	39Ω 2% 0,25W
3542	4822 050 28201	820Ω 1% 0,6W
3543	4822 051 10101	100Ω 2% 0,25W
3545	4822 116 52256	2k2 5% 0,5W
3545	4822 111 70178	120Ω 5% 5W
3545	4822 116 82999	330Ω 5% 5W
3546	4822 050 15608	5Ω6 1% 0,4W
3549	4822 116 52251	18k 5% 0,5W
3550	4822 052 10153	15k 5% 0,33W
3550	4822 116 52251	18k 5% 0,5W
3551	4822 050 25601	560Ω 1% 0,6W
3552	4822 050 25601	560Ω 1% 0,6W
3553	4822 052 10561	560Ω 5% 0,33W
3560	4822 116 52254	20k 5% 0,5W
3560	4822 116 52247	16k 5% 0,5W
3560	4822 051 10333	33k 2% 0,25W
3570	4822 052 10688	6Ω8 5 0,33W
3582	4822 050 25601	560Ω 1% 0,6W
3585	4822 052 10159	15Ω 5% 0,33W
3588	4822 052 10561	560Ω 5% 0,33W
3589	4822 050 24701	470Ω 1% 0,6W
3590	4822 116 52234	100k 5% 0,5W
3591	4822 051 10474	470k 2% 0,25W
3592	4822 051 10681	680Ω 2% 0,25W
3603	4822 053 21915	9M1 5% 0,5W
3605	4822 052 10102	1k 5% 0,33W
3606	4822 052 10102	1k 5% 0,33W
3610	4822 052 10159	15Ω 5% 0,33W
3610	4822 052 10688	6Ω8 5 0,33W
3617	4822 116 52213	180Ω 5% 0,5W
3619	4822 116 52182	15Ω 5% 0,5W
3620	4822 053 12121	120Ω 5% 3W
3622	4822 053 11479	47Ω 5% 2W
3624	4822 116 52272	330k 5% 0,5W
3625	4822 116 52292	560k 5% 0,5W
3626	4822 053 12361	360Ω 5% 3W
3626	4822 113 80565	180Ω 5% 5W
3627	4822 053 12361	360Ω 5% 3W
3628	4822 051 10334	330k 2% 0,25W
3629	4822 051 10682	6k8 2% 0,25W
3631	4822 050 22204	220k 1% 0,6W
3631	4822 050 21204	120k 1% 0,6W
3634	4822 116 52269	3k3 5% 0,5W
3634	4822 116 52263	2k7 5% 0,5W
3635	4822 100 11681	1k 30% 0,1W
3636	4822 051 10224	220k 2% 0,25W
3637	4822 051 10101	100Ω 2% 0,25W
3647	4822 050 23603	36k 1% 0,6W
3647	4822 050 23303	33k 1% 0,6W



3648	4822 051 10273	27k 2% 0,25W
3649	4822 050 23309	33Ω 1% 0,6W
3658	4822 052 10688	6Ω8 5 0,33W
3659	4822 051 10181	180Ω 2% 0,25W
3660	4822 051 10101	100Ω 2% 0,25W
3661	4822 051 10361	360Ω 2% 0,25W
3662	4822 051 10221	220Ω 2% 0,25W
3663	4822 051 10472	4k7 2% 0,25W
3664	4822 051 10272	2k7 2% 0,25W
3665	4822 051 10103	10k 2% 0,25W
3666	4822 051 10102	1k 2% 0,25W
3667	4822 051 10361	360Ω 2% 0,25W
3668	4822 051 10102	1k 2% 0,25W
3669	4822 051 10102	1k 2% 0,25W
3670	4822 051 10303	30k 2% 0,25W
3671	4822 116 52204	1k 5% 0,5W
3672	4822 051 10103	10k 2% 0,25W
3673	4822 051 10472	4k7 2% 0,25W
3674	4822 051 10112	1k1 2% 0,25W
3675	4822 116 52239	120k 5% 0,5W
3676	4822 051 10103	10k 2% 0,25W
3701	4822 051 10273	27k 2% 0,25W
3702	4822 051 10153	15k 2% 0,25W
3704	4822 051 10103	10k 2% 0,25W
3705	4822 051 10102	1k 2% 0,25W
3706	4822 051 10472	4k7 2% 0,25W
3707	4822 051 10223	22k 2% 0,25W
3708	4822 051 10334	330k 2% 0,25W
3710	4822 051 10008	0Ω 5% 0,25W
3710	4822 051 10243	24k 2% 0,25W
3711	4822 116 52244	15k 5% 0,5W
3711	4822 116 80176	1Ω 5% 0,5W
3712	4822 051 10223	22k 2% 0,25W
3712	4822 051 10008	0Ω 5% 0,25W
3713	4822 051 10223	22k 2% 0,25W
3713	4822 051 10008	0Ω 5% 0,25W
3714	4822 051 10155	1M5 5% 0,25W
3716	4822 051 10103	10k 2% 0,25W
3717	4822 051 10103	10k 2% 0,25W
3718	4822 116 52215	220Ω 5% 0,5W
3719	4822 116 52215	220Ω 5% 0,5W
3720	4822 116 52215	220Ω 5% 0,5W
3721	4822 051 10103	10k 2% 0,25W
3722	4822 051 10103	10k 2% 0,25W
3723	4822 051 10103	10k 2% 0,25W
3724	4822 051 10103	10k 2% 0,25W
3725	4822 051 10103	10k 2% 0,25W
3726	4822 051 10103	10k 2% 0,25W
3727	4822 116 52175	100Ω 5% 0,5W
3728	4822 116 52175	100Ω 5% 0,5W
3729	4822 051 10911	910Ω 2% 0,25W
3730	4822 051 10221	220Ω 2% 0,25W
3731	4822 051 10103	10k 2% 0,25W
3732	4822 053 11103	10k 5% 2W
3732	4822 053 11332	3k3 5% 2W
3733	4822 116 52283	4k7 5% 0,5W
3733	4822 050 23902	3k9 1% 0,6W
3734	4822 116 52283	4k7 5% 0,5W
3734	4822 050 23902	3k9 1% 0,6W
3735	4822 051 10104	100k 2% 0,25W
3736	4822 116 52175	100Ω 5% 0,5W
3737	4822 116 52284	47k 5% 0,5W
3737	4822 116 52204	1k 5% 0,5W
3741	4822 051 10123	12k 2% 0,25W
3742	4822 051 10332	3k3 2% 0,25W
3743	4822 051 10472	4k7 2% 0,25W
3747	4822 051 10273	27k 2% 0,25W
3748	4822 051 10273	27k 2% 0,25W
3749	4822 051 10273	27k 2% 0,25W
3750	4822 051 10273	27k 2% 0,25W
3751	4822 051 10153	15k 2% 0,25W
3752	4822 051 10153	15k 2% 0,25W
3753	4822 051 10153	15k 2% 0,25W

Carrier panel (continued)

 3754 4822 051 10153 15k 2% 0,25W 3755 4822 051 10008 0Ω 5% 0,25W 3755 4822 051 10101 100Ω 2% 0,25W 3756 4822 051 10101 100Ω 2% 0,25W 3757 4822 051 20222 2k2 5% 0,1W 3758 4822 051 10392 3k9 2% 0,25W 3759 4822 116 52175 100Ω 5% 0,5W 3768 4822 116 52235 1M 5% 0,5W 3770 4822 051 10473 47k 2% 0,25W 3771 4822 116 52251 18k 5% 0,5W 3772 4822 051 10392 3k9 2% 0,25W 3774 4822 051 10103 10k 2% 0,25W 3775 4822 051 10101 100Ω 2% 0,25W 3776 4822 051 10562 5k6 2% 0,25W 3777 4822 116 52264 27k 5% 0,5W 3778 4822 051 10563 56k 2% 0,25W 3779 4822 116 52233 10k 5% 0,5W 3780 4822 051 10103 10k 2% 0,25W 3781 4822 051 10472 4k7 2% 0,25W 3850 4822 116 52189 30Ω 5% 0,5W 3851 4822 116 80747 75Ω 5% 0,125W 3852 4822 116 80747 75Ω 5% 0,125W 3853 4822 116 80747 75Ω 5% 0,125W 3854 4822 116 80747 75Ω 5% 0,125W 3855 4822 116 52201 75Ω 5% 0,5W 3856 4822 051 10101 100Ω 2% 0,25W 3857 4822 051 10331 330Ω 2% 0,25W 3858 4822 051 10331 330Ω 2% 0,25W 3859 4822 051 10331 330Ω 2% 0,25W 3860 4822 116 80176 1Ω 5% 0,5W 3861 4822 051 10562 5k6 2% 0,25W 3866 4822 051 10103 10k 2% 0,25W 3867 4822 116 80747 75Ω 5% 0,125W 3868 4822 116 80747 75Ω 5% 0,125W 3869 4822 116 52175 100Ω 5% 0,5W 3871 4822 116 52175 100Ω 5% 0,5W 3874 4822 050 21008 1Ω 1% 0,6W 3875 4822 051 10102 1k 2% 0,25W 3880 4822 116 52204 1k 5% 0,5W 3881 4822 116 52224 470Ω 5% 0,5W 3882 4822 116 52224 470Ω 5% 0,5W 3883 4822 051 10104 100k 2% 0,25W 3884 4822 050 21004 100k 1% 0,6W 3885 4822 051 10223 22k 2% 0,25W 3886 4822 051 10472 4k7 2% 0,25W 3887 4822 116 52289 5k6 5% 0,5W 3888 4822 116 52207 1k2 5% 0,5W 3890 4822 051 10103 10k 2% 0,25W 4221 4822 051 10008 0Ω 5% 0,25W 4222 4822 051 10008 0Ω 5% 0,25W 4223 4822 051 10008 0Ω 5% 0,25W 4224 4822 051 10008 0Ω 5% 0,25W 4233 4822 051 10008 0Ω 5% 0,25W 4237 4822 051 10008 0Ω 5% 0,25W 4239 4822 051 10008 0Ω 5% 0,25W 4300 4822 051 10008 0Ω 5% 0,25W 4301 4822 051 10008 0Ω 5% 0,25W 4302 4822 051 10008 0Ω 5% 0,25W 4303 4822 051 10008 0Ω 5% 0,25W 4304 4822 051 10008 0Ω 5% 0,25W 4305 4822 051 10008 0Ω 5% 0,25W 4306 4822 051 10008 0Ω 5% 0,25W 4307 4822 051 10008 0Ω 5% 0,25W 4308 4822 051 10008 0Ω 5% 0,25W 4310 4822 051 10008 0Ω 5% 0,25W 4312 4822 051 10008 0Ω 5% 0,25W 4314 4822 051 10008 0Ω 5% 0,25W 4315 4822 051 10008 0Ω 5% 0,25W 4316 4822 051 10008 0Ω 5% 0,25W 4317 4822 051 10008 0Ω 5% 0,25W 4318 4822 051 10008 0Ω 5% 0,25W 4319 4822 051 10152 1k5 2% 0,25W 4320 4822 051 10008 0Ω 5% 0,25W	 4321 4822 051 10008 0Ω 5% 0,25W 4322 4822 051 10008 0Ω 5% 0,25W 4323 4822 051 10008 0Ω 5% 0,25W 4324 4822 051 10008 0Ω 5% 0,25W 4325 4822 051 10008 0Ω 5% 0,25W 4326 4822 051 10008 0Ω 5% 0,25W 4329 4822 051 10008 0Ω 5% 0,25W 4450 4822 051 10008 0Ω 5% 0,25W 4451 4822 051 10008 0Ω 5% 0,25W 4452 4822 051 10008 0Ω 5% 0,25W 4500 4822 051 10008 0Ω 5% 0,25W 4501 4822 051 10008 0Ω 5% 0,25W 4502 4822 051 10008 0Ω 5% 0,25W 4503 4822 051 10008 0Ω 5% 0,25W 4504 4822 051 10008 0Ω 5% 0,25W 4505 4822 051 10008 0Ω 5% 0,25W 4506 4822 051 10008 0Ω 5% 0,25W 4507 4822 051 10008 0Ω 5% 0,25W 4602 4822 051 10008 0Ω 5% 0,25W 4603 4822 051 10008 0Ω 5% 0,25W 4604 4822 051 10008 0Ω 5% 0,25W 4605 4822 051 10008 0Ω 5% 0,25W 4700 4822 051 10008 0Ω 5% 0,25W 4701 4822 051 10008 0Ω 5% 0,25W 4704 4822 051 10008 0Ω 5% 0,25W 4706 4822 051 10008 0Ω 5% 0,25W 4707 4822 051 10008 0Ω 5% 0,25W 4708 4822 051 10008 0Ω 5% 0,25W 4709 4822 051 10008 0Ω 5% 0,25W 4710 4822 051 10008 0Ω 5% 0,25W 4711 4822 051 10008 0Ω 5% 0,25W 4712 4822 051 10008 0Ω 5% 0,25W 4713 4822 051 10008 0Ω 5% 0,25W 4714 4822 051 10008 0Ω 5% 0,25W 4715 4822 051 10008 0Ω 5% 0,25W 4716 4822 051 10008 0Ω 5% 0,25W 4718 4822 051 10008 0Ω 5% 0,25W 4720 4822 051 10008 0Ω 5% 0,25W 4721 4822 051 10008 0Ω 5% 0,25W 4723 4822 051 10008 0Ω 5% 0,25W 4850 4822 051 10008 0Ω 5% 0,25W 4851 4822 051 10008 0Ω 5% 0,25W 4852 4822 051 10008 0Ω 5% 0,25W 4853 4822 051 10008 0Ω 5% 0,25W 4854 4822 051 10008 0Ω 5% 0,25W 4855 4822 051 10008 0Ω 5% 0,25W 4856 4822 051 10008 0Ω 5% 0,25W 4857 4822 051 10008 0Ω 5% 0,25W 4858 4822 051 10008 0Ω 5% 0,25W 4859 4822 051 10008 0Ω 5% 0,25W 4862 4822 051 10008 0Ω 5% 0,25W 4863 4822 051 10008 0Ω 5% 0,25W 4865 4822 051 10008 0Ω 5% 0,25W 4866 4822 051 10008 0Ω 5% 0,25W 4867 4822 051 10008 0Ω 5% 0,25W	 5549 4822 157 53069 coil balance 5554 4822 157 63079 AT4042/97 25"/28" 5554 4822 157 63161 AT4042/90G 21" 5582 5322 157 52539 15μH 5588 4822 157 52505 33μH 10% 5605 4822 157 53995 100μH 10% 5606 4822 157 53995 100μH 10% 5619 4822 156 21125 3,9μH 10% 25"/28" 5619 4822 157 51235 4μH 7 10% 21" 5621 4822 157 60412 150μH 10% 25"/28" 5621 4822 157 53903 180μH 10% 21" 5625 4822 148 81159 S.O.P.S. trafo 21" 5625 4822 148 81168 S.O.P.S. trafo 25"/28" 5630 4822 157 60387 1μH 5631 4822 158 10551 27μH 5632 4822 158 10551 27μH 5661 4822 152 20678 33μH 10% 5701 4822 157 52843 56μH 5% 5703 4822 157 52279 33μH 10% 5801 4822 157 53001 27μH 10%
	 5240 4822 158 10551 27μH 5242 4822 158 10551 27μH 5301 4822 157 63075 7,95μH 8% 5303 4822 157 53906 47μH 5303 5322 157 51687 39μH 10% 5304 4822 157 63074 7,6μH 5306 4822 320 40081 470 NSEC 5530 4822 152 20559 390μH 10% 5534 4822 158 10728 coil 25"/28" 5534 4822 157 62771 coil 21" 5541 4822 157 63078 line driver 5545 4822 140 10417 L.O.T. 25"/28" non BL.L. 5545 4822 140 10414 L.O.T. 25"/28" BL.L. 5545 4822 140 10418 L.O.T. 21"	 6245 4822 130 30621 1N4148 6246 4822 130 81139 LLZ-C3V3 6247 4822 130 81139 LLZ-C3V3 6248 4822 130 80446 LL4148 6249 4822 130 80446 LL4148 6300 4822 130 80446 LL4148 6302 4822 130 34382 BZX79-C8V2 6303 4822 130 34382 BZX79-C8V2 6310 4822 130 80954 LLZ-C5V6 6315 4822 130 80446 LL4148 6316 4822 130 30621 1N4148 6317 4822 130 30621 1N4148 6318 4822 130 80446 LL4148 6367 4822 130 80884 LLZ-C5V1 6464 4822 130 81015 LLZ-C10 6465 4822 130 61219 BZX79-F10 6465 4822 130 80239 BZX79-F8V2 6465 4822 130 34281 BZX79-F15 6503 4822 130 42489 BYD33G 6504 4822 130 80446 LL4148 6518 4822 130 80446 LL4148 6519 4822 130 80446 LL4148 6546 4822 130 41275 BY228/20 6547 4822 130 41602 BYW95C/20 6548 4822 130 30621 1N4148 6549 4822 130 42488 BYD33D 6551 4822 130 42489 BYD33G 6560 4822 130 80446 LL4148 6561 4822 130 34383 BZX79-C47 6563 4822 130 80915 BYD74C 6570 4822 130 42488 BYD33D 6571 4822 130 42488 BYD33D 6580 4822 130 82512 BYV29F-400 6580 4822 130 32961 BYV28-200 6585 4822 130 42488 BYD33D 6590 4822 130 81141 LLZ-C43 6591 4822 130 30621 1N4148 6592 4822 130 80928 BZX79-C30 6610 4822 130 80446 LL4148 6611 4822 130 34268 LLZ-F16 6612 4822 130 30621 1N4148 6617 4822 130 31456 BZV85-C5V1 6621 4822 130 42488 BYD33D 6622 4822 130 30621 1N4148 6630 4822 130 33531 BY229F-600 6630 4822 130 81175 BYD74G 6640 4822 130 80914 BYD74B 6641 4822 130 80914 BYD74B 6646 4822 130 42488 BYD33D

Carrier panel (continued)

Mains module

 6648 4822 130 34488 BZX79-F12 6648 4822 130 61219 BZX79-F10 6649 4822 130 30621 1N4148 6660 4822 130 30621 1N4148 6661 4822 130 42488 BYD33D 6662 4822 130 80905 LLZ-F5V1 6663 4822 130 34281 BZX79-F15 6664 4822 130 61219 BZX79-F10 6664 4822 130 30862 BZX79-F9V1 6665 4822 130 80883 LLZ-C4V7 6666 4822 130 80887 LLZ-C36 6666 4822 130 81141 LLZ-C43 6669 4822 130 80446 LL4148 6670 4822 130 20245 SF0Q5D43 6675 4822 130 80914 BYD74B 6675 4822 130 42488 BYD33D 6705 4822 130 80905 LLZ-F5V1 6707 4822 209 72895 TLUV5320 6708 4822 130 81145 LLZ-F2V4 6709 4822 130 82037 HZT33	 7672 4822 130 61207 BC848 7701 5322 130 42012 BC858A 7702 4822 130 61207 BC848 7703 4822 130 61207 BC848 7704 4822 130 61207 BC848 7705 4822 130 61207 BC848 7706 4822 130 61207 BC848 7707 4822 130 61207 BC848 7708 4822 209 63872 TMP47C1237N-U105 GR2VSL1 7708 4822 209 63947 TMP47C1237N-U107 GR2VSL2 7708 4822 209 63861 TMP47C1637N-U208 GR2FSL2 7708 4822 209 63875 TMP47C1637N-U211 GR2FSL1 7709 4822 130 61207 BC848 7710 4822 209 62098 ST24C02CP 7711 4822 130 61207 BC848 7712 4822 130 61207 BC848 7805 4822 130 61207 BC848 7810 4822 130 61207 BC848	4822 212 23664 mains mod. 10 4822 265 30389 2P MALE 32 4822 265 30389 2P MALE 33 4822 265 30877 3P MALE  2601 4822 121 40487 100n 400V  3601 4822 116 40211 PTC/NTC 3607 4822 050 23901 390Ω  5600 4822 157 63073 filter
 7000 5322 130 42012 BC858A 7001 5322 130 42012 BC858A 7002 5322 130 42012 BC858A 7003 4822 130 42133 BC817 7240 4822 209 73253 TDA2613/N1 7240 4822 209 73853 TDA1521/N4 7243 5322 130 42012 BC858 7244 4822 130 42513 BC858C 7245 5322 130 42136 BC848C 7246 5322 130 42136 BC848C 7247 5322 130 42136 BC848C 7248 4822 130 61207 BC848 7249 4822 130 61207 BC848 7301 4822 130 61207 BC848 7302 5322 130 42012 BC858 7303 4822 130 61207 BC848 7305 4822 209 70019 TDA4510/V2/S8 7306 4822 209 63109 TDA4650/V3 7307 4822 209 63108 TDA4660/V2 7308 4822 209 71512 TDA4565/V6 7309 4822 209 63733 TDA4680/V5 7310 4822 130 61207 BC848 7311 5322 209 10576 4053B 7312 5322 209 10576 4053B 7341 4822 130 61207 BC848 7370 4822 130 61207 BC848 7371 4822 130 61207 BC848 7372 4822 130 61207 BC848 7373 4822 130 61207 BC848 7374 4822 130 61207 BC848 7455 5322 130 42012 BC858 7470 4822 209 63297 TDA2579B/N1 7500 4822 130 41344 BC337-40 7502 4822 130 60775 2SD1266P 7503 4822 130 61236 BD234 7504 4822 130 61207 BC848 7505 5322 130 42012 BC858 7530 4822 130 61207 BC848 7533 4822 130 60111 2SA1359 7534 4822 130 44283 BC636 7540 4822 130 41344 BC337-40 7545 4822 130 61265 BU508AF 7546 4822 130 62677 BUT11AF/1 7591 5322 130 42012 BC858 7600 4822 209 63735 TDA8385/N2 7614 4822 209 63732 CNR50 7625 4822 130 43919 BUT12AF 7661 5322 130 44921 BD943 7663 4822 130 42513 BC858C 7671 4822 130 61207 BC848		 6602 4822 130 31933 1N5061 6603 4822 130 31933 1N5061 6604 4822 130 31933 1N5061 6605 4822 130 31933 1N5061

CRT modules

4822 212 23675 CRT MOD. 25"/28" BL.L. 4822 212 23676 CRT MOD. 25"/28" NON BL.L. 4822 212 23678 CRT MOD. 21"			3345 4822 051 10681 680Ω 2% 0,25W 3361 4822 116 52208 130Ω 5% 0,5W 3361 4822 051 10131 130Ω 2% 0,25W 3362 4822 051 10152 1k5 2% 0,25W 3362 4822 051 10162 1k6 2% 0,25W 3362 4822 051 10362 3k6 2% 0,25W 3363 4822 051 10272 2k7 2% 0,25W 3364 4822 116 52239 120k 5% 0,5W 3365 4822 116 52283 4k7 5% 0,5W 3366 4822 116 52283 4k7 5% 0,5W 3367 4822 116 52283 4k7 5% 0,5W 3368 4822 051 10479 47Ω 2% 0,25W 3369 4822 051 10479 47Ω 2% 0,25W 3369 4822 051 10118 1Ω1 5% 0,25W 3370 4822 116 52219 330Ω 5% 0,5W 3371 4822 053 12103 10k 5% 3W 3371 4822 053 12153 15k 5% 3W 3372 4822 052 10271 270Ω 5% 0,33W 3373 4822 052 10271 270Ω 5% 0,33W 3374 4822 050 21502 1k5 1% 0,6W 3391 4822 051 10104 100k 2% 0,25W 3392 4822 051 10104 100k 2% 0,25W 3393 4822 116 52234 100k 5% 0,5W 3393 4822 050 28203 82k 1% 0,6W 3394 4822 051 10333 33k 2% 0,25W 3394 4822 116 52267 30k 5% 0,5W 3395 4822 051 10683 68k 2% 0,25W 3396 4822 051 10124 120k 2% 0,25W 3397 4822 051 10124 120k 2% 0,25W 3411 4822 051 10182 1k8 2% 0,25W 3411 4822 116 52243 1k5 5% 0,5W 3412 4822 116 52224 470Ω 5% 0,5W 3413 4822 116 52218 300Ω 5% 0,5W 3413 4822 051 10221 220Ω 2% 0,25W 3414 4822 051 10519 51Ω 2% 0,25W 3414 4822 051 10479 47Ω 2% 0,25W 3415 4822 116 52218 300Ω 5% 0,5W 3415 4822 051 10221 220Ω 2% 0,25W 3421 4822 051 10104 100k 2% 0,25W 3422 4822 051 10682 6k8 2% 0,25W 3422 4822 050 26802 6k8 1% 0,6W 3423 4822 051 10474 470k 2% 0,25W 3423 4822 116 52285 470k 5% 0,5W 3431 4822 052 10181 180Ω 5% 0,33W 3432 4822 052 10399 39Ω 5% 0,33W 3433 4822 052 10108 1Ω 5% 0,33W 3434 4822 050 21502 1k5 1% 0,6W 3435 4822 050 21502 1k5 1% 0,6W 3436 4822 050 21805 1M8 1% 0,6W 4000 4822 051 10008 0Ω 5% 0,25W 4001 4822 051 10008 0Ω 5% 0,25W 4002 4822 051 10008 0Ω 5% 0,25W 4003 4822 051 10008 0Ω 5% 0,25W 4005 4822 051 10008 0Ω 5% 0,25W 4006 4822 051 10008 0Ω 5% 0,25W 4007 4822 051 10008 0Ω 5% 0,25W 4008 4822 051 10008 0Ω 5% 0,25W 4009 4822 051 10008 0Ω 5% 0,25W 4010 4822 051 10008 0Ω 5% 0,25W 4011 4822 051 10008 0Ω 5% 0,25W 4012 4822 051 10008 0Ω 5% 0,25W			7301 4822 130 41773 BF869 7301 4822 130 41782 BF422 7303 4822 130 61207 BC848 7304 4822 130 41782 BF422 7304 4822 130 41782 BF422 7305 4822 130 41646 BF423 7332 4822 130 41773 BF869 7332 4822 130 41782 BF422 7333 4822 130 61207 BC848 7334 4822 130 41782 BF422 7335 4822 130 41646 BF423 7345 5322 130 42012 BC858A 7362 4822 130 41773 BF869 7362 4822 130 41782 BF422 7363 4822 130 61207 BC848 7364 4822 130 41782 BF422 7365 4822 130 41646 BF423 7391 4822 130 41646 BF423 7411 4822 130 40938 BC548 7421 5322 130 41983 BC858B		
19 4822 265 30378 4P MALE 20 4822 290 40295 7P MALE 21 4822 255 70261 CRT SOCKET 25"/28" 21 4822 255 70251 CRT SOCKET 21"			3301 4822 051 10131 130Ω 2% 0,25W 3302 4822 051 10152 1k5 2% 0,25W 3302 4822 051 10162 1k6 2% 0,25W 3302 4822 051 10362 3k6 2% 0,25W 3303 4822 051 10272 2k7 2% 0,25W 3304 4822 116 52239 120k 5% 0,5W 3305 4822 116 52283 4k7 5% 0,5W 3306 4822 116 52283 4k7 5% 0,5W 3307 4822 116 52283 4k7 5% 0,5W 3308 4822 051 10479 47Ω 2% 0,25W 3308 4822 051 10118 1Ω1 5% 0,25W 3310 4822 116 52219 330Ω 5% 0,5W 3311 4822 053 12123 12k 5% 3W 3311 4822 053 12153 15k 5% 3W 3312 4822 052 10271 270Ω 5% 0,33W 3313 4822 052 10271 270Ω 5% 0,33W 3314 4822 050 21502 1k5 1% 0,6W 3315 4822 051 10124 120k 2% 0,25W 3316 4822 051 10124 120k 2% 0,25W 3331 4822 051 10131 130Ω 2% 0,25W 3332 4822 051 10152 1k5 2% 0,25W 3332 4822 051 10162 1k6 2% 0,25W 3332 4822 051 10362 3k6 2% 0,25W 3333 4822 051 10272 2k7 2% 0,25W 3334 4822 116 52239 120k 5% 0,5W 3335 4822 116 52283 4k7 5% 0,5W 3336 4822 116 52283 4k7 5% 0,5W 3337 4822 116 52283 4k7 5% 0,5W 3339 4822 051 10479 47Ω 2% 0,25W 3339 4822 051 10118 1Ω1 5% 0,25W 3340 4822 116 52219 330Ω 5% 0,5W 3341 4822 053 12153 15k 5% 3W 3342 4822 052 10271 270Ω 5% 0,33W 3343 4822 052 10271 270Ω 5% 0,33W 3344 4822 050 21502 1k5 1% 0,6W			5401 4822 156 20915 33μH 5401 4822 158 10563 82μH 7,5%		
6301 4822 130 80877 BAV103 6331 4822 130 80877 BAV103 6345 4822 130 81015 BZV55-F10 6361 4822 130 80877 BAV103 6411 4822 130 80879 BZV55-C3V0 6421 4822 130 80446 LL4148								

Euro module

Mono IF/sound module

1006 4822 212 23666 EURO MODULE		3834 4822 051 10279 27Ω 2% 0,25W 3835 4822 051 10221 220Ω 2% 0,25W 3836 4822 051 10102 1k 2% 0,25W 3837 4822 052 10278 2Ω 5% 0,33W 3838 4822 116 80747 75Ω 5% 0,125W 4851 4822 051 10008 0Ω 5% 0,25W 4852 4822 051 10008 0Ω 5% 0,25W 4854 4822 051 10008 0Ω 5% 0,25W 4855 4822 051 10008 0Ω 5% 0,25W 4856 4822 051 10008 0Ω 5% 0,25W 4858 4822 051 10008 0Ω 5% 0,25W	4822 212 23688 IF MOD. MULTI 4822 212 23689 IF MOD. PAL/SECAM BG 4822 212 23694 IF MOD. PAL I
 23 4822 265 40442 10P MALE 26 4822 265 40442 10P MALE 30 4822 265 41086 9P MALE 32 4822 267 40666 3P MALE 48 4822 267 60247 EURO CONNECTOR		5800 4822 157 51462 10μH	various 1010 4822 242 72212 OFWG3950 1010 4822 242 72374 OFWG1961 1010 4822 242 70936 OFWJ1952 1042 4822 242 72211 TPS 5,5MHz 1043 4822 153 30025 6MHz 1102 4822 242 70714 SFT5,5MA 1103 4822 242 71841 SFT6,0MA
 2800 4822 121 51252 470nF 5% 63V 2801 4822 121 51252 470nF 5% 63V 2802 4822 121 51252 470nF 5% 63V 2803 4822 121 51252 470nF 5% 63V 2804 4822 122 33496 100nF 10% 63V 2805 4822 122 33496 100nF 10% 63V 2806 4822 122 33496 100nF 10% 63V 2807 4822 124 41506 47μF 20% 16V 2810 4822 122 32142 270pF 5% 63V 2811 4822 122 32142 270pF 5% 63V 2812 4822 122 33496 100nF 10% 63V 2813 4822 122 32542 47nF 10% 63V 2814 4822 122 31759 18nF 2815 4822 122 33496 100nF 10% 63V 2816 4822 122 33496 100nF 10% 63V 2817 4822 122 33496 100nF 10% 63V 2818 4822 122 33496 100nF 10% 63V 2819 4822 124 41525 100μF 20% 25V 2820 5322 121 42386 100nF 5% 63V 2821 4822 124 40433 47μF 20% 25V 2822 4822 124 40435 10μF 20% 50V 2823 4822 122 33496 100nF 10% 63V 2831 4822 124 40272 33μF 20% 16V 2833 4822 122 33496 100nF 10% 63V 2834 4822 122 33496 100nF 10% 63V	 6800 4822 130 80954 LLZ-C5V6 6801 4822 130 80446 LL4148 6802 4822 130 80446 LL4148 6803 4822 130 30621 1N4148	 7800 5322 130 44921 BD943 7801 5322 209 10576 4053B 7802 5322 209 10576 4053B 7820 4822 130 61207 BC848 7821 5322 130 42136 BC848C 7822 5322 130 42012 BC858 7823 4822 130 61207 BC848 7824 4822 130 61207 BC848	 2011 4822 124 40435 10μF 20% 50V 2012 4822 124 41577 4,7μF 20% 50V 2013 4822 122 31784 4,7nF 10% 50V 2014 4822 122 31784 4,7nF 10% 50V 2014 4822 122 31797 22nF 10% 63V 2015 5322 121 42498 680nF 5% 63V 2016 4822 122 31784 4,7nF 10% 50V 2017 4822 122 33496 100nF 10% 63V 2018 4822 121 51252 470nF 5% 63V 2019 4822 122 31784 4,7nF 10% 50V 2020 4822 122 33205 12pF 10% 63V 2021 4822 122 33205 12pF 10% 63V 2022 4822 122 33472 22pF 2% 2025 4822 122 31784 4,7nF 10% 50V 2035 4822 122 32507 6,8pF 5% 50V 2036 4822 122 31766 120pF 5% 50V 2037 4822 122 31766 120pF 5% 50V 2038 4822 122 31784 4,7nF 10% 50V 2039 4822 122 32504 15pF 5% 50V 2040 4822 122 31784 4,7nF 10% 50V 2041 4822 122 31784 4,7nF 10% 50V 2042 4822 122 33205 12pF 10% 63V 2044 4822 122 31797 22nF 10% 63V 2047 4822 122 33496 100nF 10% 63V 2048 4822 124 41506 47μF 20% 16V 2049 4822 122 33496 100nF 10% 63V 2050 4822 124 40849 330μF 20% 16V 2055 4822 122 31972 39pF 5% 50V 2056 4822 124 40435 10μF 20% 50V 2057 4822 122 31981 33nF ±0,5pF 50V 2058 4822 122 31797 22nF 10% 63V 2059 4822 124 41566 3,3μF 20% 50V 2060 4822 122 31797 22nF 10% 63V 2100 4822 122 33205 12pF 10% 63V 2101 4822 122 33473 27pF 2% 2102 4822 122 32507 6,8pF 5% 50V 2104 4822 122 33474 47pF 2% 2105 4822 122 33465 39pF 2% 2106 4822 122 31792 1,5pF 10% 50V 2107 4822 122 33465 39pF 2% 2108 4822 122 31784 4,7nF 10% 50V 2109 4822 122 33473 27pF 2% 2110 5322 126 10514 0,47pF 5% 63V 2111 4822 122 31784 4,7nF 10% 50V 2113 4822 124 41596 22μF 20% 50V 2114 4822 122 31784 4,7nF 10% 50V 2115 4822 124 41577 4,7μF 20% 50V 2116 4822 124 40435 10μF 20% 50V 2117 4822 124 41576 2,2μF 20% 50V 2118 4822 124 40432 1500μF 20% 25V 2124 4822 122 32442 10nF 50V 2125 4822 124 40195 150μF 20% 16V 2126 4822 121 43898 8,2nF 10% 50V 2127 5322 121 42661 330nF 5% 63V 2129 5322 121 42661 330nF 5% 63V 2130 5322 121 42661 330nF 5% 63V 2132 4822 122 31797 22nF 10% 63V
 3800 4822 116 52189 30Ω 5% 0,5W 3801 4822 116 80747 75Ω 5% 0,125W 3802 4822 116 52211 150Ω 5% 0,5W 3803 4822 116 52211 150Ω 5% 0,5W 3804 4822 116 52204 1k 5% 0,5W 3805 4822 116 52204 1k 5% 0,5W 3806 4822 051 10334 330k 2% 0,25W 3807 4822 051 10334 330k 2% 0,25W 3808 4822 051 10334 330k 2% 0,25W 3809 4822 051 10334 330k 2% 0,25W 3810 4822 051 10622 6k2 2% 0,25W 3811 4822 051 10182 1k8 2% 0,25W 3812 4822 051 10331 330Ω 2% 0,25W 3813 4822 116 52201 75Ω 5% 0,5W 3814 4822 051 10152 1k5 2% 0,25W 3815 4822 051 10472 4k7 2% 0,25W 3816 4822 116 52296 6k8 5% 0,5W 3819 4822 051 10331 330Ω 2% 0,25W 3820 4822 051 10331 330Ω 2% 0,25W 3821 4822 051 10331 330Ω 2% 0,25W 3822 4822 051 10331 330Ω 2% 0,25W 3823 4822 051 10561 560Ω 2% 0,25W 3824 4822 051 10151 150Ω 2% 0,25W 3825 4822 051 10223 22k 2% 0,25W 3826 4822 051 10102 1k 2% 0,25W 3827 4822 051 10339 33Ω 2% 0,25W 3828 4822 051 10562 5k6 2% 0,25W 3829 4822 051 10821 820Ω 2% 0,25W 3830 4822 051 10683 68k 2% 0,25W 3831 4822 051 10123 12k 2% 0,25W 3833 4822 051 10279 27Ω 2% 0,25W			

Mono IF/sound module (continued)

 2133 4822 122 31797 22nF 10% 63V 2134 4822 124 41596 22µF 20% 50V 2135 4822 121 42408 220nF 5% 63V 2136 5322 121 42661 330nF 5% 63V 2137 4822 126 11381 820pF 2% 2137 4822 122 31746 1000pF 5% 50V 2141 4822 124 41577 4,7µF 20% 50V 2143 4822 122 31797 22nF 10% 63V 2150 4822 121 42408 220nF 5% 63V 2151 4822 124 40195 150µF 20% 16V	 3109 4822 051 10223 22k 2% 0,25W 3112 4822 051 10472 4k7 2% 0,25W 3114 4822 051 10472 4k7 2% 0,25W 3114 4822 051 10182 1k8 2% 0,25W 3116 4822 116 52263 2k7 5% 0,5W 3117 4822 051 10104 100k 2% 0,25W 3118 4822 051 10472 4k7 2% 0,25W 3118 4822 051 20222 2k2 5% 0,1W 3119 4822 051 10472 4k7 2% 0,25W 3120 4822 051 10472 4k7 2% 0,25W 3121 4822 051 10104 100k 2% 0,25W 3124 4822 051 10103 10k 2% 0,25W 3125 4822 051 10103 10k 2% 0,25W 3126 4822 051 10153 15k 2% 0,25W 3127 4822 051 10153 15k 2% 0,25W 3129 4822 051 10822 8k2 2% 0,25W 3130 4822 051 10682 6k8 2% 0,25W 3131 4822 051 10102 1k 2% 0,25W 3132 4822 051 10392 3k9 2% 0,25W 3140 4822 051 10153 15k 2% 0,25W 3141 4822 051 10392 3k9 2% 0,25W 3142 4822 051 10273 27k 2% 0,25W 3143 4822 051 10182 1k8 2% 0,25W 3144 4822 051 10182 1k8 2% 0,25W 4010 4822 051 10008 0Ω 5% 0,25W 4011 4822 051 10008 0Ω 5% 0,25W 4012 4822 051 10008 0Ω 5% 0,25W 4013 4822 051 10008 0Ω 5% 0,25W 4014 4822 051 10008 0Ω 5% 0,25W 4015 4822 051 10008 0Ω 5% 0,25W 4016 4822 051 10008 0Ω 5% 0,25W 4018 4822 051 10008 0Ω 5% 0,25W 4019 4822 051 10008 0Ω 5% 0,25W 4020 4822 051 10008 0Ω 5% 0,25W 4021 4822 051 10008 0Ω 5% 0,25W 4100 4822 051 10008 0Ω 5% 0,25W	 7000 4822 209 72812 TDA2549/C4 7030 5322 130 42012 BC858 7031 4822 130 61207 BC848 7035 4822 130 44121 BC338 7040 5322 130 42012 BC858A 7041 4822 130 61207 BC848 7100 4822 209 63105 TDA3843/V2 7101 4822 209 63217 TDA3827/V2 7102 4822 130 61207 BC848 7103 5322 130 42136 BC848C 7104 5322 130 41982 BC848B
 3012 4822 051 10562 5k6 2% 0,25W 3013 4822 051 10273 27k 2% 0,25W 3014 4822 051 10823 82k 2% 0,25W 3015 4822 051 10104 100k 2% 0,25W 3015 4822 051 10473 47k 2% 0,25W 3016 4822 100 11163 100k 30% LIN 0,1W 3017 4822 051 10823 82k 2% 0,25W 3019 4822 051 10473 47k 2% 0,25W 3020 4822 051 10223 22k 2% 0,25W 3020 4822 051 10273 27k 2% 0,25W 3021 4822 051 10273 27k 2% 0,25W 3021 4822 051 20183 18k 5% 0,1W 3022 4822 051 10151 150Ω 2% 0,25W 3022 4822 051 10008 0Ω 5% 0,25W 3024 4822 051 20222 2k2 5% 0,1W 3025 4822 051 10562 5k6 2% 0,25W 3030 4822 051 10223 22k 2% 0,25W 3031 4822 051 10474 470k 2% 0,25W 3036 4822 051 10472 4k7 2% 0,25W 3037 4822 051 10392 3k9 2% 0,25W 3038 4822 051 10472 4k7 2% 0,25W 3039 4822 051 10392 3k9 2% 0,25W 3040 4822 051 10472 4k7 2% 0,25W 3041 4822 051 10221 220Ω 2% 0,25W 3042 4822 051 10101 100Ω 2% 0,25W 3042 4822 051 10221 220Ω 2% 0,25W 3043 4822 116 52175 100Ω 5% 0,5W 3044 4822 051 10102 1k 2% 0,25W 3044 4822 051 10271 270Ω 2% 0,25W 3046 4822 051 10681 680Ω 2% 0,25W 3047 4822 051 10822 8k2 2% 0,25W 3048 4822 100 11683 2k 30% LIN 0,2W 3049 4822 051 20183 18k 5% 0,1W 3050 4822 051 10272 2k7 2% 0,25W 3051 4822 051 10563 56k 2% 0,25W 3052 4822 051 10471 470Ω 2% 0,25W 3052 4822 051 10561 560Ω 2% 0,25W 3055 4822 051 10103 10k 2% 0,25W 3056 4822 051 10471 470Ω 2% 0,25W 3058 4822 051 10682 6k8 2% 0,25W 3060 4822 051 10471 470Ω 2% 0,25W 3061 4822 051 10124 120k 2% 0,25W 3062 4822 051 10563 56k 2% 0,25W 3063 4822 051 10272 2k7 2% 0,25W 3064 4822 051 10563 56k 2% 0,25W 3065 4822 051 10223 22k 2% 0,25W 3066 4822 051 10824 820k 2% 0,25W 3067 4822 051 10331 330Ω 2% 0,25W 3068 4822 051 10152 1k5 2% 0,25W 3080 4822 051 10102 1k 2% 0,25W 3080 4822 051 20222 2k2 5% 0,1W 3080 4822 051 10332 3k3 2% 0,25W 3100 4822 051 10104 100k 2% 0,25W 3101 4822 051 10562 5k6 2% 0,25W 3102 4822 051 20222 2k2 5% 0,1W 3103 4822 051 10104 100k 2% 0,25W 3104 4822 051 10479 47Ω 2% 0,25W 3105 4822 053 11271 270Ω 5% 2W 3107 4822 051 10151 150Ω 2% 0,25W 3108 4822 051 10333 33k 2% 0,25W	 5005 4822 157 53539 0,27µH 5% 5010 4822 157 63081 0,56µH 20% 5035 4822 157 53534 0,34µH 5% 5036 4822 157 53609 0,36µH 5% 5037 4822 157 53537 1,35µH 5% 5038 4822 157 63076 1,2µH 5% 5039 4822 157 52983 22µH 5041 4822 157 52983 22µH 5041 4822 157 53001 27µH 10% 5042 4822 157 53634 5,6µH 10% 5042 4822 152 20677 10µH 5100 4822 157 53538 0,75µH 5% 5101 4822 157 53535 0,36µH 5% 5102 4822 157 53536 0,34µH 5% 5105 4822 157 52511 0,83µH	
	 6005 4822 130 80888 BA682 6037 4822 130 80888 BA682 6038 4822 130 80888 BA682 6039 4822 130 30621 1N4148 6040 4822 130 80446 BAS32L 6041 4822 130 80446 BAS32L 6042 4822 130 80446 BAS32L 6043 4822 130 80446 BAS32L 6101 4822 130 80888 BA682 6102 4822 130 80888 BA682 6103 4822 130 80888 BA682 6104 4822 130 80888 BA682 6108 4822 130 80888 BA682 6112 4822 130 80884 LLZ-C5V1	

Stereo IF/sound module

4822 212 23663 IF MOD. MULTI			2130 4822 124 40195 150μF 20% 16V			3105 4822 053 11121 120Ω 5% 2W					
4822 212 23687 IF MOD. NON MULTI			2133 4822 122 31797 22nF 10% 63V			3106 4822 051 10561 560Ω 2% 0,25W					
			2200 4822 121 51252 470nF 5% 63V			3107 4822 051 10102 1k 2% 0,25W					
			2201 4822 121 51252 470nF 5% 63V			3108 4822 051 10561 560Ω 2% 0,25W					
			2202 4822 121 51252 470nF 5% 63V			3109 4822 051 10562 5k6 2% 0,25W					
various			2203 4822 122 31916 5,6nF 10% 63V			3110 4822 051 10562 5k6 2% 0,25W					
1010 4822 242 80205 OFWK3261			2204 4822 121 42408 220nF 5% 63V			3112 4822 051 10562 5k6 2% 0,25W					
1010 4822 242 72554 OFWG3254			2204 4822 121 42408 220nF 5% 63V			3113 4822 051 10562 5k6 2% 0,25W					
1042 4822 242 72211 TPS 5,5MW			2205 4822 122 32893 100nF 80% 50V			3115 4822 051 10331 330Ω 2% 0,25W					
1101 4822 242 70485 SFT5,74MA			2206 4822 121 51252 470nF 5% 63V			3117 4822 051 10561 560Ω 2% 0,25W					
1102 4822 242 71713 SFE6,0MBF			2207 4822 121 51252 470nF 5% 63V			3117 4822 051 10681 680Ω 2% 0,25W					
1103 4822 242 70714 SFT5,5MA			2208 4822 124 41509 33μF 20% 35V			3119 4822 051 10562 5k6 2% 0,25W					
1200 4822 242 80208 10 MHz			2209 4822 124 41509 33μF 20% 35V			3120 4822 051 10562 5k6 2% 0,25W					
			2210 4822 122 32893 100nF 80% 50V			3121 4822 051 10562 5k6 2% 0,25W					
			2211 4822 124 40198 470μF 20% 16V			3122 4822 051 10122 1k2 2% 0,25W					
			2212 4822 124 40435 10μF 20% 50V			3123 4822 051 10561 560Ω 2% 0,25W					
			2213 4822 122 31782 15000pF 10% 50V			3124 4822 051 20222 2k2 5% 0,1W					
			2214 4822 122 31782 15000pF 10% 50V			3125 4822 051 10102 1k 2% 0,25W					
			2215 4822 122 31981 33nF ±0,5pF 50V			3126 4822 051 10102 1k 2% 0,25W					
			2216 4822 122 31916 5,6nF 10% 63V			3127 4822 051 10152 1k5 2% 0,25W					
			2217 4822 122 31981 33nF ±0,5pF 50V			3128 4822 051 10182 1k8 2% 0,25W					
			2218 4822 122 31916 5,6nF 10% 63V			3200 4822 051 10331 330Ω 2% 0,25W					
			2219 4822 124 41577 4,7μF 20% 50V			3201 4822 051 10331 330Ω 2% 0,25W					
			2220 4822 124 41577 4,7μF 20% 50V			3202 4822 051 10563 56k 2% 0,25W					
			2221 4822 124 41577 4,7μF 20% 50V			3203 4822 051 10563 56k 2% 0,25W					
			2222 4822 124 41643 100μF 20% 16V			3204 4822 100 11676 10k 30% LIN 0,2W					
						3205 4822 052 10229 22Ω 5% 0,33W					
2011 4822 124 41506 47μF 20% 16V			3012 4822 051 10562 5k6 2% 0,25W			3206 4822 051 10478 4Ω7 5% 0,25W					
2012 4822 124 41577 4,7μF 20% 50V			3013 4822 051 10273 27k 2% 0,25W			3207 4822 051 10273 27k 2% 0,25W					
2013 4822 122 31784 4,7nF 10% 50V			3014 4822 051 10823 82k 2% 0,25W			3208 4822 051 10272 2k7 2% 0,25W					
2014 4822 122 31797 22nF 10% 63V			3015 4822 116 52234 100k 5% 0,5W			3209 4822 051 10333 33k 2% 0,25W					
2015 5322 121 42498 680nF 5% 63V			3016 4822 100 11163 100k 30% LIN 0,1W			3210 4822 116 52204 1k 5% 0,5W					
2016 4822 122 31784 4,7nF 10% 50V			3017 4822 051 10823 82k 2% 0,25W			3211 4822 051 10101 100Ω 2% 0,25W					
2017 4822 122 33496 100nF 10% 63V			3019 4822 051 10473 47k 2% 0,25W			3213 4822 116 52233 10k 5% 0,5W					
2018 4822 121 51252 470nF 5% 63V			3020 4822 051 10273 27k 2% 0,25W			3214 4822 051 10102 1k 2% 0,25W					
2035 4822 122 32506 5,6pF 5% 50V			3021 4822 051 20183 18k 5% 0,1W			4010 4822 051 10008 0Ω 5% 0,25W					
2035 4822 051 10472 4k7 2% 0,25W			3030 4822 051 10223 22k 2% 0,25W			4011 4822 051 10008 0Ω 5% 0,25W					
2036 4822 122 31784 4,7nF 10% 50V			3031 4822 051 10474 470k 2% 0,25W			4012 4822 051 10008 0Ω 5% 0,25W					
2037 4822 122 31784 4,7nF 10% 50V			3036 4822 051 10472 4k7 2% 0,25W			4014 4822 051 10008 0Ω 5% 0,25W					
2038 4822 122 33496 100nF 10% 63V			3037 4822 051 10392 3k9 2% 0,25W			4015 4822 051 10008 0Ω 5% 0,25W					
2039 4822 122 32083 8,2pF 5% 50V			3038 4822 051 10472 4k7 2% 0,25W			4018 4822 051 10008 0Ω 5% 0,25W					
2039 4822 051 10682 6k8 2% 0,25W			3039 4822 051 10472 4k7 2% 0,25W			4019 4822 051 10008 0Ω 5% 0,25W					
2040 4822 122 31784 4,7nF 10% 50V			3040 4822 051 10472 4k7 2% 0,25W			4020 4822 051 10008 0Ω 5% 0,25W					
2041 4822 122 31784 4,7nF 10% 50V			3041 4822 051 10221 220Ω 2% 0,25W			4021 4822 051 10008 0Ω 5% 0,25W					
2042 4822 122 33205 12pF 10% 63V			3042 4822 051 10151 150Ω 2% 0,25W			4040 4822 051 10008 0Ω 5% 0,25W					
2044 4822 122 31797 22nF 10% 63V			3042 4822 116 90536 120Ω 1% 0,125W			4041 4822 051 10008 0Ω 5% 0,25W					
2047 4822 122 33496 100nF 10% 63V			3043 4822 116 52175 100Ω 5% 0,5W			4100 4822 051 10008 0Ω 5% 0,25W					
2048 4822 124 41506 47μF 20% 16V			3044 4822 051 10102 1k 2% 0,25W			4101 4822 051 10008 0Ω 5% 0,25W					
2049 4822 122 33496 100nF 10% 63V			3044 4822 051 10271 270Ω 2% 0,25W			4102 4822 051 10008 0Ω 5% 0,25W					
2050 4822 124 40849 330μF 20% 16V			3046 4822 116 52228 680Ω 5% 0,5W			4103 4822 051 10008 0Ω 5% 0,25W					
2051 4822 122 33496 100nF 10% 63V			3047 4822 051 10822 8k2 2% 0,25W			4104 4822 051 10008 0Ω 5% 0,25W					
2055 4822 122 31972 39pF 5% 50V			3048 4822 100 11683 2k 30% LIN 0,2W			4105 4822 051 10008 0Ω 5% 0,25W					
2056 4822 124 40435 10μF 20% 50V			3049 4822 051 20183 18k 5% 0,1W			4107 4822 051 10008 0Ω 5% 0,25W					
2057 4822 122 31981 33nF 5% 50V			3050 4822 051 10272 2k7 2% 0,25W			4108 4822 051 10008 0Ω 5% 0,25W					
2058 4822 122 31797 22nF 10% 63V			3051 4822 051 10563 56k 2% 0,25W			4201 4822 051 10008 0Ω 5% 0,25W					
2059 4822 124 41407 0,47μF 20% 63V			3052 4822 051 10102 1k 2% 0,25W			4204 4822 051 10008 0Ω 5% 0,25W					
2100 4822 122 33205 12pF 10% 63V			3055 4822 051 10103 10k 2% 0,25W			4205 4822 051 10008 0Ω 5% 0,25W					
2101 4822 122 33473 27pF 2%			3056 4822 051 10471 470Ω 2% 0,25W								
2102 4822 122 32507 6,8pF 5% 50V			3060 4822 051 10471 470Ω 2% 0,25W								
2104 4822 122 33465 39pF 2%			3061 4822 051 10124 120k 2% 0,25W								
2105 4822 126 11379 33pF 2%			3062 4822 051 10563 56k 2% 0,25W								
2106 4822 122 31792 1,5pF 10% 50V			3063 4822 051 10272 2k7 2% 0,25W								
2107 4822 122 33465 39pF 2%			3064 4822 051 10224 220k 2% 0,25W								
2108 4822 122 31784 4,7nF 10% 50V			3065 4822 051 10472 4k7 2% 0,25W								
2109 4822 122 33473 27pF 2%			3065 4822 051 10124 120k 2% 0,25W								
2110 4822 122 32507 6,8pF 5% 50V			3066 4822 051 10824 820k 2% 0,25W								
2111 4822 122 31784 4,7nF 10% 50V			3070 4822 051 10822 8k2 2% 0,25W								
2112 4822 122 32505 2,7pF 5% 50V			3100 4822 051 10104 100k 2% 0,25W								
2113 4822 124 40435 10μF 20% 50V			3101 4822 051 10562 5k6 2% 0,25W								
2114 4822 122 32442 10nF 50V			3102 4822 051 20222 2k2 5% 0,1W								
2115 4822 124 41509 33μF 20% 35V			3103 4822 051 10104 100k 2% 0,25W								
2117 4822 124 41576 2,2μF 20% 50V											
2118 4822 124 41576 2,2μF 20% 50V											
2119 4822 122 31797 22nF 10% 63V											
2120 4822 124 41576 2,2μF 20% 50V											
2122 4822 122 33496 100nF 10% 63V											
2123 4822 124 41577 4,7μF 20% 50V											
2123 4822 124 40242 1μF 20% 63V											
2124 4822 124 41576 2,2μF 20% 50V											
2125 4822 122 10527 910pF 2% NPO 50V											
2126 4822 122 31784 4,7nF 10% 50V											
2127 4822 126 11381 820pF 2% NPO											
2127 4822 122 31746 1000pF 5% 50V											
2128 4822 126 11381 820pF 2% NPO											
2129 4822 122 33476 220pF 2% 50V											
</											

 5103 4822 157 52511 0,83μH 5104 4822 157 63077 0,25μH 5% 5105 4822 157 52511 0,83μH	4822 212 23692 IF MOD. PAL BG 4822 212 23691 IF MOD. PAL I	 2147 4822 122 32504 15pF 5% 50V 2148 4822 122 33496 100nF 10% 63V 2150 4822 122 32893 100nF 80% 50V 2151 4822 122 31772 47pF 5% 50V 2153 4822 122 32862 10nF 80% 50V
 6037 4822 130 80888 BA682 6038 4822 130 80888 BA682 6039 4822 130 30621 1N4148 6040 4822 130 80446 BAS32L 6041 4822 130 80446 BAS32L 6042 4822 130 80446 BAS32L 6043 4822 130 80446 BAS32L 6101 4822 130 80888 BA682 6102 4822 130 80888 BA682 6103 4822 130 80888 BA682 6104 4822 130 80888 BA682 6106 4822 130 80888 BA682 6107 4822 130 80888 BA682 6108 4822 130 80888 BA682 6109 4822 130 80446 LL4148	various 1010 4822 242 72554 OFWG3254 1010 4822 242 72553 OFWJ3251 1042 4822 242 72211 TPS 5,5MHz 1042 4822 153 30025 6MHz 1100 4822 242 70485 SET5,74MA 1105 4822 242 70714 SFT5,5MA 1105 4822 242 71713 SFE6,0MBF 1116 4822 242 72301 TH316BQM-2080QDAF 1116 4822 242 72303 TH316BQM-2110QDAF 1125 4822 242 72302 5,850 MHz 1125 4822 242 72347 6,552 MHz 1141 4822 242 72304 5,824 MHz 1191 4822 253 10064 FUSE 0,4A 1200 4822 242 80208 10 MHz	2154 4822 122 31972 39pF 5% 50V 2155 4822 125 50045 20pF 2162 4822 122 32893 100nF 80% 50V 2168 4822 122 33496 100nF 10% 63V 2169 4822 124 41506 47μF 20% 16V 2170 4822 122 31759 18nF 2170 4822 122 32597 6,8nF 10% 63V 2171 4822 122 33608 39nF 10% 63V 2171 4822 122 31782 15000pF 10% 50V 2173 4822 122 31773 560pF 5% 50V 2174 4822 122 33498 2,7nF 10% 63V 2175 4822 122 32999 2,2N 5% NPO 2176 4822 121 51252 470nF 5% 63V 2177 4822 122 32863 22nF 80% 50V 2180 4822 122 31759 18nF
 7000 4822 209 72812 TDA2549/C4 7030 5322 130 42012 BC858 7031 4822 130 61207 BC848 7035 4822 130 44121 BC338 7040 5322 130 42012 BC858A 7100 4822 209 63059 TDA3856/V3 7101 4822 209 63784 TDA3857/V3 7102 4822 130 61207 BC848 7103 5322 130 42012 BC858 7104 4822 130 61207 BC848 7200 4822 209 63294 TDA8417/V1 7220 4822 209 63734 TDA8425/V7 7232 5322 130 41982 BC848B	 2011 4822 124 41506 47μF 20% 16V 2012 4822 124 41577 4,7μF 20% 50V 2013 4822 122 31797 22nF 10% 63V 2014 4822 122 31797 22nF 10% 63V 2015 5322 121 42498 680nF 5% 63V 2016 4822 122 31784 4,7nF 10% 50V 2017 4822 122 33496 100nF 10% 63V 2042 4822 122 33205 12pF 10% 63V 2044 4822 122 31797 22nF 10% 63V 2047 4822 122 33496 100nF 10% 63V 2049 4822 122 33496 100nF 10% 63V 2050 4822 124 40849 330μF 20% 16V 2100 4822 124 40242 1μF 20% 63V 2101 4822 122 31746 1000pF 5% 50V 2102 4822 122 31746 1000pF 5% 50V 2102 4822 122 32765 820pF 10% 63V 2104 4822 122 31784 4,7nF 10% 50V 2106 4822 124 41576 2,2μF 20% 50V 2107 4822 124 41576 2,2μF 20% 50V 2108 4822 122 32862 10nF 80% 50V 2109 4822 124 41509 33μF 20% 35V 2110 4822 122 32893 100nF 80% 50V 2116 5322 122 31647 1nF 10% 63V 2119 4822 124 40198 470μF 20% 16V 2120 4822 124 41407 0,47μF 20% 63V 2121 4822 124 41407 0,47μF 20% 63V 2122 4822 122 32862 10nF 80% 50V 2123 4822 122 31774 56pF 5% 50V 2124 4822 125 50045 20pF 2125 4822 122 33205 12pF 10% 63V 2126 4822 122 31769 18pF 5% 50V 2127 4822 124 41407 0,47μF 20% 63V 2128 4822 122 32862 10nF 80% 50V 2129 4822 122 31965 220pF 5% 63V 2130 4822 122 31965 220pF 5% 63V 2131 4822 122 32862 10nF 80% 50V 2132 4822 122 32862 10nF 80% 50V 2133 4822 122 32893 100nF 80% 50V 2134 4822 122 32893 100nF 80% 50V 2135 4822 122 32893 100nF 80% 50V 2136 4822 122 32893 100nF 80% 50V 2137 4822 122 32862 10nF 80% 50V 2138 4822 122 32862 10nF 80% 50V 2139 4822 124 41407 0,47μF 20% 63V 2140 4822 122 31774 56pF 5% 50V 2141 4822 122 31769 18pF 5% 50V 2142 4822 122 32444 33pF 5% 50V 2143 4822 122 32504 15pF 5% 50V 2144 4822 122 32862 10nF 80% 50V 2145 4822 124 41506 47μF 20% 16V 2146 4822 122 32504 15pF 5% 50V	2180 4822 122 32597 6,8nF 10% 63V 2181 4822 122 33608 39nF 10% 63V 2181 4822 122 31782 15000pF 10% 50V 2183 4822 122 31773 560pF 5% 50V 2184 4822 122 33498 2,7nF 10% 63V 2185 4822 122 32999 2,2N 5% NPO 2186 4822 121 51252 470nF 5% 63V 2187 4822 122 32863 22nF 80% 50V 2188 4822 124 41506 47μF 20% 16V 2189 4822 122 32863 22nF 80% 50V 2190 4822 122 32893 100nF 80% 50V 2191 4822 124 41643 100μF 20% 16V 2192 4822 122 32893 100nF 80% 50V 2193 4822 124 40849 330μF 20% 16V 2194 4822 122 32893 100nF 80% 50V 2195 4822 124 41506 47μF 20% 16V 2196 4822 122 32862 10nF 80% 50V 2197 4822 124 41506 47μF 20% 16V 2198 4822 121 51252 470nF 5% 63V 2200 4822 121 51252 470nF 5% 63V 2201 4822 121 51252 470nF 5% 63V 2202 4822 122 31766 120pF 5% 50V 2203 4822 124 41509 33μF 20% 35V 2204 4822 124 41509 33μF 20% 35V 2205 4822 122 32893 100nF 80% 50V 2207 4822 121 51252 470nF 5% 63V 2209 4822 121 51252 470nF 5% 63V 2210 4822 124 41577 4,7μF 20% 50V 2211 4822 121 42408 220nF 5% 63V 2212 4822 122 31916 5,6nF 10% 63V 2213 4822 124 40195 150μF 20% 16V 2214 4822 122 32893 100nF 80% 50V 2215 4822 124 41506 47μF 20% 16V 2216 4822 122 31981 33nF ±0,5pF 50V 2217 4822 124 41577 4,7μF 20% 50V 2218 4822 124 41643 100μF 20% 16V 2219 4822 124 41577 4,7μF 20% 50V 2220 4822 122 31916 5,6nF 10% 63V 2223 4822 122 31916 5,6nF 10% 63V 2224 4822 122 31981 33nF ±0,5pF 50V 2225 4822 122 31782 15000pF 10% 50V 2226 4822 122 31782 15000pF 10% 50V
		 3012 4822 051 10562 5k6 2% 0,25W 3013 4822 051 10273 27k 2% 0,25W 3014 4822 051 10823 82k 2% 0,25W 3015 4822 051 10104 100k 2% 0,25W 3016 4822 100 11163 100k 30% LIN 0,1W 3019 4822 051 10473 47k 2% 0,25W 3020 4822 051 10273 27k 2% 0,25W 3021 4822 051 20183 18k 5% 0,1W

NICAM IF/sound module (continued)

Teletext module

-II-			-II-					
3030	4822 051 10223	22k 2% 0,25W	3217	4822 051 10102	1k 2% 0,25W	4822 212 23697	TXT MOD.	
3035	4822 051 10472	4k7 2% 0,25W	3218	4822 051 10101	100Ω 2% 0,25W		EUROPE	
3041	4822 051 10221	220Ω 2% 0,25W	4000	4822 051 10393	39k 2% 0,25W	4822 212 23698	TXT MOD. SCAN	
3042	4822 116 90536	120Ω 1% 0,125W	4000	4822 051 10392	3k9 2% 0,25W			
3042	4822 051 10101	100Ω 2% 0,25W	4199	4822 051 10008	0Ω 5% 0,25W			
3043	4822 050 21001	100Ω 1% 0,6W				21	4822 267 40469	6P MALE GOLD
3044	4822 051 10102	1k 2% 0,25W				22	4822 265 40471	8P MALE GOLD
3052	4822 051 10102	1k 2% 0,25W				various		
3055	4822 051 10103	10k 2% 0,25W				1801	4822 242 73552	14,875 MHz
3056	4822 051 10471	470Ω 2% 0,25W	5010	4822 157 53302	1μH	1802	4822 242 71508	6 MHz
3065	4822 051 10472	4k7 2% 0,25W	5035	4822 157 53534	0,34μH 5%	-II-		
3070	4822 051 10822	8k2 2% 0,25W	5036	4822 157 53609	0,36μH 5%			
3100	4822 051 10561	560Ω 2% 0,25W	5042	4822 157 53634	5,6μH 10%	2792	4822 122 33496	100nF 10% 63V
3101	4822 051 10331	330Ω 2% 0,25W	5101	4822 157 52511	0,83μH	2793	4822 122 32542	47nF 10% 63V
3102	4822 051 10681	680Ω 2% 0,25W	5102	4822 157 52511	0,83μH	2794	4822 122 31769	18pF 5% 50V
3105	4822 051 10561	560Ω 2% 0,25W	5103	4822 157 63077	0,25μH 5%	2795	4822 122 31769	18pF 5% 50V
3106	4822 051 10561	560Ω 2% 0,25W	5129	4822 157 51238	0,820μH	2796	4822 122 31769	18pF 5% 50V
3107	4822 051 10122	1k2 2% 0,25W	5130	4822 157 51238	0,820μH	2797	4822 122 31769	18pF 5% 50V
3108	4822 051 20222	2k2 5% 0,1W	5153	4822 157 53575	3,3μH	2799	4822 122 31965	220pF 5% 63V
3109	4822 053 11121	120Ω 5% 2W				2800	4822 124 40178	100μF 20% 10V
3110	4822 051 10102	1k 2% 0,25W				2801	4822 122 32442	10nF 50V
3116	4822 051 10471	470Ω 2% 0,25W	6151	5322 130 34953	BB405B	2804	4822 122 31766	120pF 5% 50V
3120	4822 051 10154	150k 2% 0,25W	6190	4822 130 80446	LL4148	2805	4822 122 31766	120pF 5% 50V
3121	4822 051 10224	220k 2% 0,25W	6191	4822 130 80954	LLZ-C5V6	2810	4822 122 33496	100nF 10% 63V
3122	4822 051 10471	470Ω 2% 0,25W	6197	4822 130 81027	LLZ-C11	2811	4822 122 33496	100nF 10% 63V
3123	4822 051 10511	510Ω 2% 0,25W				2812	4822 122 33496	100nF 10% 63V
3125	4822 051 10102	1k 2% 0,25W				2813	4822 122 32442	10nF 50V
3126	4822 051 10393	39k 2% 0,25W	7000	4822 209 72812	TDA2549/C4	2814	4822 122 31773	560pF 5% 50V
3139	4822 051 10393	39k 2% 0,25W	7035	4822 130 44121	BC338	2815	4822 122 33496	100nF 10% 63V
3140	4822 051 10471	470Ω 2% 0,25W	7100	4822 209 63784	TDA3857/V3	2816	4822 122 31825	27pF 10% 50V
3141	4822 051 10102	1k 2% 0,25W	7106	4822 130 61207	BC848	2817	4822 122 32504	15pF 5% 50V
3143	4822 051 10331	330Ω 2% 0,25W	7108	5322 130 42012	BC858	2818	5322 122 31647	1nF 10% 63V
3144	4822 052 10278	2Ω 5% 0,33W	7120	4822 209 73558	TA8662N	2819	4822 122 31727	470pF 5% 63V
3150	4822 051 10102	1k 2% 0,25W	7150	4822 209 61114	CF70123	2820	4822 122 31797	22nF 10% 63V
3151	4822 051 10103	10k 2% 0,25W	7160	5322 209 10883	PCF8574P	2821	4822 122 32142	270pF 5% 63V
3160	4822 051 10331	330Ω 2% 0,25W	7168	4822 209 73236	TDA1543/N2	2822	4822 122 31765	100pF 5% 50V
3161	4822 051 10331	330Ω 2% 0,25W	7170	4822 209 83163	LM833N	2823	4822 122 31727	470pF 5% 63V
3162	4822 051 10331	330Ω 2% 0,25W	7180	4822 209 83163	LM833N	2824	4822 122 32891	68nF 10% 63V
3168	4822 052 10278	2Ω 5% 0,33W	7190	5322 130 41983	BC858B	2825	4822 124 41525	100μF 20% 25V
3170	4822 051 10562	5k6 2% 0,25W	7191	4822 130 44121	BC338	2826	4822 122 32504	15pF 5% 50V
3170	4822 051 10153	15k 2% 0,25W	7195	4822 130 61207	BC848	2827	4822 122 32542	47nF 10% 63V
3171	4822 051 10102	1k 2% 0,25W	7200	4822 209 61026	TDA8415/V1	2828	4822 122 32542	47nF 10% 63V
3171	4822 051 10272	2k7 2% 0,25W	7213	4822 209 63734	TDA8425/V7	2829	4822 124 41506	47μF 20% 16V
3172	4822 051 10472	4k7 2% 0,25W	7217	5322 130 41982	BC848B	2830	4822 122 32542	47nF 10% 63V
3173	4822 051 10472	4k7 2% 0,25W				2832	4822 124 41576	2,2μF 20% 50V
3177	4822 051 10822	8k2 2% 0,25W				2833	4822 124 41576	2,2μF 20% 50V
3177	4822 051 10472	4k7 2% 0,25W				2834	4822 124 40178	100μF 20% 10V
3180	4822 051 10562	5k6 2% 0,25W				2836	4822 122 31766	120pF 5% 50V
3180	4822 051 10153	15k 2% 0,25W				2845	4822 124 40178	100μF 20% 10V
3181	4822 051 10102	1k 2% 0,25W				2846	4822 124 41554	220μF 20% 10V
3181	4822 051 10272	2k7 2% 0,25W				2849	4822 124 21212	15μF 20% 35V
3182	4822 051 10472	4k7 2% 0,25W				3795	4822 051 10392	3k9 2% 0,25W
3183	4822 051 10472	4k7 2% 0,25W				3796	4822 051 10121	120Ω 2% 0,25W
3188	4822 052 10109	10Ω 5% 0,33W				3797	4822 116 52176	10Ω 5% 0,5W
3190	4822 051 10471	470Ω 2% 0,25W				3798	4822 051 10121	120Ω 2% 0,25W
3191	4822 052 10399	39Ω 5% 0,33W				3800	4822 051 10103	10k 2% 0,25W
3192	4822 052 10478	4Ω 5% 0,33W				3802	4822 051 10101	100Ω 2% 0,25W
3195	4822 052 10109	10Ω 5% 0,33W				3803	4822 051 10101	100Ω 2% 0,25W
3197	4822 051 10331	330Ω 2% 0,25W				3804	4822 051 10101	100Ω 2% 0,25W
3200	4822 100 11676	10k 30% LIN 0,2W				3805	4822 051 10122	1k2 2% 0,25W
3201	4822 051 10822	8k2 2% 0,25W				3807	4822 051 10562	5k6 2% 0,25W
3202	4822 051 10512	5k1 2% 0,25W				3808	4822 051 10103	10k 2% 0,25W
3203	4822 051 10563	56k 2% 0,25W				3809	4822 051 10272	2k7 2% 0,25W
3204	4822 051 10563	56k 2% 0,25W				3810	4822 051 10333	33k 2% 0,25W
3205	4822 052 10229	22Ω 5% 0,33W				3811	4822 051 10223	22k 2% 0,25W
3206	4822 051 10331	330Ω 2% 0,25W				3812	4822 051 10332	3k3 2% 0,25W
3208	4822 051 10331	330Ω 2% 0,25W				3813	4822 051 10271	270Ω 2% 0,25W
3209	4822 051 10103	10k 2% 0,25W				3814	4822 116 52204	1k 5% 0,5W
3210	4822 051 10102	1k 2% 0,25W				3815	4822 051 10152	1k5 2% 0,25W
3213	4822 051 10478	4Ω 5% 0,25W						
3214	4822 051 10273	27k 2% 0,25W						
3215	4822 051 10272	2k7 2% 0,25W						
3216	4822 051 10333	33k 2% 0,25W						

Teletext module (continued)

PIP module

3816 4822 051 10683 68k 2% 0,25W
 3817 4822 051 10122 1k2 2% 0,25W
 3818 4822 051 10122 1k2 2% 0,25W
 3819 4822 051 10122 1k2 2% 0,25W
 3820 4822 051 10122 1k2 2% 0,25W
 3821 4822 051 10122 1k2 2% 0,25W
 3822 4822 051 10122 1k2 2% 0,25W
 3823 4822 051 10122 1k2 2% 0,25W
 3824 4822 051 10332 3k3 2% 0,25W
 3825 4822 051 10332 3k3 2% 0,25W
 3826 4822 052 10159 15Ω 5% 0,33W
 3827 4822 051 10332 3k3 2% 0,25W
 3828 4822 051 10122 1k2 2% 0,25W
 3829 4822 116 52211 150Ω 5% 0,5W
 3830 4822 050 28209 82Ω 1% 0,6W
 3831 4822 051 10681 680Ω 2% 0,25W
 3832 4822 051 10102 1k 2% 0,25W
 3833 4822 051 10102 1k 2% 0,25W
 3834 4822 051 10681 680Ω 2% 0,25W
 3835 4822 051 10561 560Ω 2% 0,25W
 3836 4822 051 10473 47k 2% 0,25W
 3837 4822 051 10102 1k 2% 0,25W
 3838 4822 051 10273 27k 2% 0,25W
 3839 4822 051 10122 1k2 2% 0,25W
 3840 4822 051 10122 1k2 2% 0,25W
 3841 4822 051 10122 1k2 2% 0,25W
 3842 4822 051 10122 1k2 2% 0,25W
 3843 4822 051 10122 1k2 2% 0,25W
 3845 4822 052 10689 68Ω 5% 0,33W
 3846 4822 052 10689 68Ω 5% 0,33W
 3847 4822 051 10829 82Ω 2% 0,25W
 3848 4822 051 10181 180Ω 2% 0,25W
 3849 4822 051 10102 1k 2% 0,25W
 3900 4822 051 10008 0Ω 5% 0,25W
 3901 4822 051 10008 0Ω 5% 0,25W
 3904 4822 051 10008 0Ω 5% 0,25W
 3906 4822 051 10008 0Ω 5% 0,25W
 3908 4822 051 10008 0Ω 5% 0,25W
 3910 4822 051 10008 0Ω 5% 0,25W
 3913 4822 051 10008 0Ω 5% 0,25W
 3914 4822 051 10008 0Ω 5% 0,25W
 3915 4822 051 10008 0Ω 5% 0,25W
 3917 4822 051 10008 0Ω 5% 0,25W
 3918 4822 051 10008 0Ω 5% 0,25W
 3919 4822 051 10008 0Ω 5% 0,25W
 3920 4822 051 10008 0Ω 5% 0,25W
 3921 4822 051 10008 0Ω 5% 0,25W
 3922 4822 051 10008 0Ω 5% 0,25W



5800 4822 156 20966 47 μH
 5801 4822 157 52849 22μH 10%
 5803 4822 157 52825 60μH
 5814 4822 157 53608 10μH
 5816 4822 157 52224 15μH
 5834 4822 157 53001 27μH 10%
 5847 4822 157 51157 3,3μH



6809 4822 130 80446 LL4148
 6810 4822 130 80446 LL4148
 6811 4822 130 80446 LL4148
 6812 4822 130 80446 LL4148
 6813 4822 130 80906 LLZ-C7V5
 6814 4822 130 80446 LL4148
 6820 4822 130 80446 LL4148
 6847 4822 130 42489 BYD33G
 6848 4822 130 80905 LLZ-F5V1



7800 4822 209 63857 PCF84C81/074
 7801 4822 130 61207 BC848
 7802 4822 130 61207 BC848
 7803 5322 130 41982 BC848B
 7810 4822 209 72681 KM6264AL-15
 7811 5322 130 41982 BC848B
 7812 5322 130 60159 BC846B
 7820 4822 209 73879 SAA5243P/E/M3
 7830 4822 209 63645 SAA5231/V7
 7831 4822 130 40962 BC558A
 7832 4822 130 40937 BC548B
 7846 5322 130 44921 BD943
 7849 5322 130 42012 BC858

4822 265 40503 5P female gold plated
 4822 265 40472 10P female gold plated
 4822 265 30828 5P male

Various parts

1155 4822 320 40051 DELAY LINE DL711
 1201 4822 242 70304 crystal 8,867 238 MHz
 1212 4822 242 70736 crystal 7,159 090 MHz



2103 4822 122 32444 33pF 5% 50V
 2105 4822 122 31766 120pF 5% 50V
 2118 4822 122 31775 680pF 5% 50V
 2119 4822 122 31808 150pF 10% 50V
 2120 4822 122 31807 1200pF 5% 50V
 2125 4822 122 32863 22nF 80% 50V
 2155 4822 122 32862 10nF 80% 50V
 2158 4822 122 32862 10nF 80% 50V
 2160 4822 124 40242 1μF 20% 63V
 2161 4822 124 41576 2,2μF 20% 50V
 2162 4822 122 32893 100nF 80% 50V
 2171 4822 122 31961 68pF 5% 63V
 2172 4822 126 11175 22pF 5% 50V
 2176 4822 126 11175 22pF 5% 50V
 2177 4822 122 31961 68pF 5% 63V
 2180 4822 122 31768 180pF 5% 50V
 2181 4822 122 31768 180pF 5% 50V
 2185 4822 122 32863 22nF 80% 50V
 2187 4822 122 32863 22nF 80% 50V
 2189 4822 122 31746 1000pF 5% 50V
 2196 4822 122 32893 100nF 80% 50V
 2197 4822 122 31385 22pF 5% 50V
 2201 4822 122 31746 1000pF 5% 50V
 2202 4822 125 50045 20pF
 2211 4822 122 31746 1000pF 5% 50V
 2212 4822 125 50045 20pF trim.
 2220 5322 121 42661 330nF 5% 63V
 2222 4822 122 32542 47nF 10% 63V
 2227 5322 122 31842 330pF 5% 63V
 2230 4822 124 40242 1μF 20% 63V
 2232 4822 124 41678 22μF 20% 25V
 2234 4822 122 33496 100nF 10% 63V
 2235 4822 124 41578 6,8μF 20% 50V
 2238 4822 121 42937 2,7nF 1% 250V
 2239 4822 122 32893 100nF 80% 50V
 2250 4822 121 51115 270nF 10% 63V
 2251 5322 122 31647 1nF 10% 63V
 2255 4822 122 31766 120pF 5% 50V
 2260 4822 122 32893 100nF 80% 50V
 2270 4822 122 32893 100nF 80% 50V
 2340 4822 124 41506 47μF 20% 16V
 2345 4822 124 41506 47μF 20% 16V
 2350 4822 124 40849 330μF 20% 16V
 2351 4822 124 41643 100μF 20% 16V
 2380 4822 122 32927 220nF
 2381 4822 122 32927 220nF
 2382 4822 122 32927 220nF
 2383 4822 122 32927 220nF
 2384 4822 122 32927 220nF
 2385 4822 122 32927 220nF
 2390 4822 122 32893 100nF 80% 50V
 2399 4822 122 31746 1000pF 5% 50V
 2404 4822 122 31965 220pF 5% 63V
 2405 4822 122 32862 10nF 80% 50V
 2409 4822 122 31965 220pF 5% 63V
 2410 4822 122 32862 10nF 80% 50V
 2413 4822 122 31765 100pF 5% 50V

PIP module (continued)



2414	4822 122 32862	10nF 80% 50V
2415	4822 122 31965	220pF 5% 63V
2430	4822 122 32893	100nF 80% 50V
2432	4822 122 32893	100nF 80% 50V
2434	4822 122 32893	100nF 80% 50V
2438	4822 121 42472	10nF 10% 50V
2439	4822 121 41856	22nF 5% 100V
2440	4822 122 31965	220pF 5% 63V
2441	4822 122 31727	470pF 5% 63V
2442	4822 124 40242	1µF 20% 63V
2446	4822 122 32893	100nF 80% 50V
2448	4822 122 32893	100nF 80% 50V
2450	4822 122 32856	8.2nF 10% 63V
2451	4822 121 51379	82nF 10% 63V
2455	4822 122 31972	39pF 5% 50V
2459	4822 124 41997	470µF 10V
2466	4822 122 32893	100nF 80% 50V



2444	4822 051 10224	220k 2% 0,25W
3103	4822 051 10821	820Ω 2% 0,25W
3104	4822 051 10821	820Ω 2% 0,25W
3105	4822 051 10362	3k6 2% 0,25W
3106	4822 116 52233	10k 5% 0,5W
3107	4822 051 10103	10k 2% 0,25W
3108	4822 051 10103	10k 2% 0,25W
3155	4822 051 10391	390Ω 2% 0,25W
3156	4822 051 10122	1k2 2% 0,25W
3157	4822 100 11391	330Ω 30% LIN
3158	4822 051 10759	75Ω 2% 0,25W
3170	4822 051 10112	1k1 2% 0,25W
3175	4822 051 10621	620Ω 2% 0,25W
3196	4822 116 52204	1k 5% 0,5W
3200	4822 051 10103	10k 2% 0,25W
3201	4822 051 10103	10k 2% 0,25W
3202	4822 051 10103	10k 2% 0,25W
3211	4822 051 10103	10k 2% 0,25W
3212	4822 051 10103	10k 2% 0,25W
3214	4822 051 10102	1k 2% 0,25W
3220	4822 051 10512	5k1 2% 0,25W
3221	4822 116 52233	10k 5% 0,5W
3222	4822 051 10008	JUMPER
3227	4822 116 52299	7k5 5% 0,5W
3228	4822 051 10472	4k7 2% 0,25W
3231	4822 051 10682	6k8 2% 0,25W
3232	4822 051 10229	22Ω 2% 0,25W
3233	4822 051 10471	470Ω 2% 0,25W
3234	4822 051 10361	360Ω 2% 0,25W
3235	4822 051 10122	1k2 2% 0,25W
3236	4822 051 10471	470Ω 2% 0,25W
3237	4822 051 10332	3k3 2% 0,25W
3238	4822 051 10333	33k 2% 0,25W
3239	4822 100 11319	4k7 30% LIN
3241	4822 051 10271	270Ω 2% 0,25W
3242	4822 116 52204	1k 5% 0,5W
3250	4822 051 10911	910Ω 2% 0,25W
3265	4822 051 10104	100k 2% 0,25W
3270	4822 051 10103	10k 2% 0,25W
3275	4822 051 10103	10k 2% 0,25W
3276	4822 051 10102	1k 2% 0,25W
3330	4822 051 20008	jumper
3335	4822 051 10271	270Ω 2% 0,25W
3336	4822 051 10432	4k3 2% 0,25W
3337	4822 051 10122	1k2 2% 0,25W
3338	4822 051 10332	3k3 2% 0,25W
3340	4822 051 10202	2k 2% 0,25W
3341	4822 052 10229	22Ω 5% 0,33W
3345	4822 052 10229	22Ω 5% 0,33W
3353	4822 052 10568	5Ω 5% 0,33W
3354	4822 051 10271	270Ω 2% 0,25W
3390	4822 051 10151	150Ω 2% 0,25W
3391	4822 051 10181	180Ω 2% 0,25W



3394	4822 051 10151	150Ω 2% 0,25W
3395	4822 051 10181	180Ω 2% 0,25W
3398	4822 051 10151	150Ω 2% 0,25W
3399	4822 051 10181	180Ω 2% 0,25W
3404	4822 051 10431	430Ω 2% 0,25W
3405	4822 051 10361	360Ω 2% 0,25W
3410	4822 051 10391	390Ω 2% 0,25W
3411	4822 051 10471	470Ω 2% 0,25W
3412	4822 051 10751	750Ω 2% 0,25W
3414	4822 051 10471	470Ω 2% 0,25W
3416	4822 051 10182	1k8 2% 0,25W
3434	4822 051 10473	47k 2% 0,25W
3436	4822 051 10473	47k 2% 0,25W
3437	4822 051 10101	100Ω 2% 0,25W
3438	4822 051 10513	51k 2% 0,25W
3440	4822 116 52222	390Ω 5% 0,5W
3441	4822 051 10519	51Ω 2% 0,25W
3442	4822 051 10919	91Ω 2% 0,25W
3444	4822 116 52175	100Ω 5% 0,5W
3446	4822 116 52175	100Ω 5% 0,5W
3448	4822 051 10392	3k9 2% 0,25W
3450	4822 051 10471	470Ω 2% 0,25W
3452	4822 051 10471	470Ω 2% 0,25W
3454	4822 051 10471	470Ω 2% 0,25W
3460	4822 116 52231	820Ω 5% 0,5W
3461	4822 116 52259	2k4 5% 0,5W
3462	4822 116 52287	51k 5% 0,5W
3463	4822 116 52299	7k5 5% 0,5W
3464	4822 051 10472	4k7 2% 0,25W
3470	4822 052 10108	1Ω 5% 0,33W
3997	4822 051 10339	33Ω 2% 0,25W
3997	4822 051 10279	27Ω 2% 0,25W

jumpers

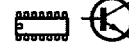
4001	4822 051 10008	jumper
4002	4822 051 10008	jumper
4003	4822 051 10008	jumper
4004	4822 051 10008	jumper
4005	4822 051 10008	jumper
4006	4822 051 10008	jumper
4007	4822 051 10008	jumper
4010	4822 051 10008	jumper
4011	4822 051 10008	jumper
4012	4822 051 10008	jumper
4048	4822 051 10008	jumper
4100	4822 051 10008	jumper
4201	4822 051 10008	jumper
4401	4822 051 10008	jumper
4402	4822 051 10008	jumper
4403	4822 051 10008	jumper
4404	4822 051 10008	jumper
4406	4822 051 10008	jumper
4407	4822 051 10008	jumper
4415	4822 051 10008	jumper



5118	4822 157 60435	10,3µH 6%
5155	4822 157 60433	7,2µH 6%
5157	4822 157 60434	9,4µH 6%
5170	4822 157 60432	10,3µH
5175	4822 157 60432	10,3µH
5190	4822 157 60432	10,3µH
5400	4822 157 50943	12µH 10%
5402	4822 157 50943	12µH 10%
5404	4822 156 20915	33µH 10%
5406	4822 157 50943	12µH 10%
5408	4822 157 50943	12µH 10%
5410	4822 157 50943	12µH 10%



6300 4822 130 80906 LLZ-C7V5



7103	5322 130 41982	BC848B
7105	5322 130 41982	BC848B
7125	4822 209 62477	TDA4554/V8
7126	4822 209 70019	TDA4510/V2/S8
7200	5322 130 41982	BC848B
7210	5322 130 41982	BC848B
7233	5322 130 41983	BC858B
7234	5322 130 41982	BC848B
7335	5322 130 41982	BC848B
7337	5322 130 41982	BC848B
7338	5322 130 41982	BC848B
7350	4822 130 42616	BC818-40
7380	4822 209 60479	TEA5114A
7400	5322 130 41983	BC858B
7402	5322 130 41983	BC858B
7404	5322 130 41983	BC858B
7406	4822 209 62473	SDA9087
7408	4822 209 63291	SDA9088/2R
7410	4822 209 63644	SDA9086-3
7755	4822 209 72363	TDA2579A/N8